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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-17  
Perfect score: 104  
Sequence: 1 GVPVHAQDGDATMRNVTD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.\*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PTCT\_NEW\_PUB.pep.\*  
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6: /cgn2\_6/ptodata/1/pubpaa/PTCTUS\_PUBCOMB.pep.\*  
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15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
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19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	62	59.6	15	14 US-10-354-240-43	Sequence 43, Appl
2	54	51.9	15	14 US-10-354-240-44	Sequence 42, Appl
3	43	41.3	15	14 US-10-354-240-42	Sequence 44, Appl
4	37	35.6	19	10 US-09-994-595-91	Sequence 91, Appl
5	35	33.7	20	9 US-09-813-333-51	Sequence 51, Appl
6	35	33.7	20	13 US-10-044-703-51	Sequence 51, Appl
7	35	33.7	20	15 US-10-239-103-51	Sequence 51, Appl
8	32	30.8	16	8 US-08-424-550B-366	Sequence 366, App
9	31	29.8	11	15 US-10-468-543-13	Sequence 13, Appl
10	31	29.8	13	15 US-10-256-850-53	Sequence 53, Appl
11	31	29.8	14	9 US-09-826-290-39	Sequence 39, Appl
12	31	29.8	14	9 US-09-826-290-61	Sequence 61, Appl
13	31	29.8	14	9 US-09-826-290-415	Sequence 415, App

14	31	29.8	14	15	US-10-264-309-190	Sequence 190, App
15	31	29.8	20	15	US-10-416-090-2	Sequence 2, Appli
16	30	28.8	13	15	US-10-256-850-56	Sequence 56, Appl
17	30	28.8	13	15	US-10-256-850-57	Sequence 57, Appl
18	30	28.8	15	14	US-10-354-240-45	Sequence 45, Appl
19	30	28.8	20	9	US-09-735-705-248	Sequence 248, App
20	30	28.8	20	9	US-09-735-705-378	Sequence 378, App
21	30	28.8	20	9	US-09-850-716A-248	Sequence 248, App
22	30	28.8	20	9	US-09-850-716A-378	Sequence 378, App
23	30	28.8	20	9	US-09-897-778-248	Sequence 248, App
24	30	28.8	20	9	US-09-897-778-378	Sequence 378, App
25	30	28.8	20	14	US-10-007-700-248	Sequence 248, App
26	30	28.8	20	14	US-10-007-700-378	Sequence 378, App
27	30	28.8	20	14	US-10-117-982-248	Sequence 248, App
28	30	28.8	20	14	US-10-117-982-378	Sequence 378, App
29	30	28.8	20	14	US-10-280-066-315	Sequence 315, App
30	30	28.8	20	14	US-10-313-986-248	Sequence 248, App
31	30	28.8	20	14	US-10-313-986-378	Sequence 378, App
32	30	28.8	20	17	US-10-775-972-248	Sequence 248, App
33	30	28.8	20	17	US-10-775-972-378	Sequence 378, App
34	29.5	28.4	15	10	US-09-894-594-37	Sequence 37, Appl
35	29.5	28.4	15	10	US-09-894-594-54	Sequence 54, Appl
36	29	27.9	20	13	US-10-032-482-25	Sequence 25, Appl
37	29	27.9	20	14	US-10-135-207-13	Sequence 13, Appl
38	29	27.9	20	14	US-10-356-191-12	Sequence 12, Appl
39	29	27.9	20	14	US-10-356-191-21	Sequence 21, Appl
40	28	26.9	7	9	US-09-989-789-672	Sequence 672, App
41	28	26.9	7	9	US-09-989-789-675	Sequence 675, App
42	28	26.9	7	10	US-09-990-186-672	Sequence 672, App
43	28	26.9	7	10	US-09-990-186-675	Sequence 675, App
44	28	26.9	7	10	US-09-989-994-672	Sequence 672, App
45	28	26.9	7	10	US-09-989-994-675	Sequence 675, App

ALIGNMENTS

RESULT 1  
US-10-354-240-43  
; Sequence 43, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 43  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 29  
US-10-354-240-43

Query Match 59.6%; Score 62; DB 14; Length 15;  
Best Local Similarity 73.3%; Pred. No. 0.0023;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 GVPVHAQDGDATM 15  
||| ||||| :|:

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Best Local Similarity 80.0%; Pred.No. 3.3;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GVPVPHAQDG 10
      || ||| |||
DB       6 GVEFVHPQDG 15

RESULT 4
US-09-994-595-91
; Sequence 91, Application US/09994595
; Publication No. US20030039981A1
; GENERAL INFORMATION:
; APPLICANT: Bhattacherjee, J.
; APPLICANT: Suvarna, Kalavati
; APPLICANT: Bhattacharjee, Vasker
; TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN
; TITLE OF INVENTION: A BIOLOGICAL SAMPLE
; FILE REFERENCE: 96,247-A
; CURRENT APPLICATION NUMBER: US/09/994,595
; CURRENT FILING DATE: 2001-11-27
; PRIOR APPLICATION NUMBER: 08/650,809
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: Microsoft Word 97
; SEQ ID NO 91
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Polypeptide segment of ACVS_CEPAC shown in Figure 4.
US-09-994-595-91

Query Match 35.6%; Score 37; DB 10; Length 19;
Best Local Similarity 66.7%; Pred. No. 44;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      3 VPVPHAQGD 11
      || ||| |||
DB       9 VPTHKQDGE 17

RESULT 5
US-09-813-333-51
; Sequence 51, Application US/09813333
; Patent No. US20020119160A1
; GENERAL INFORMATION:
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004 US
; CURRENT APPLICATION NUMBER: US/09/813,333
; CURRENT FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-09-813-333-51

Query Match 33.7%; Score 35; DB 9; Length 20;
Best Local Similarity 66.7%; Pred. No. 1e-02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 VVPVPHAQDG 10
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DB      12 VVPLHRS DG 20

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; Sequence 51, Application US/10044703
; Publication No. US20020192233A1
; GENERAL INFORMATION:
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004 US
; CURRENT APPLICATION NUMBER: US/10/044,703
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-044-703-51

Query Match      33.7%; Score 35; DB 13; Length 20;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 VVPVHAQDG 10
      |||:|:|
Db      12 VVPLHRSDG 20

RESULT 7
US-10-239-103-51
; Sequence 51, Application US/10239103
; Publication No. US20040057961A1
; GENERAL INFORMATION:
; APPLICANT: Brown University Research Foundation
; APPLICANT: DeGroot, Anne S
; TITLE OF INVENTION: Human T Cell Response to MHC-Binding Motif Clusters
; FILE REFERENCE: 17999-004-061
; CURRENT APPLICATION NUMBER: US/10/239,103
; CURRENT FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 09/813,333
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/190,834
; PRIOR FILING DATE: 2000-03-20
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 51
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-239-103-51

Query Match      33.7%; Score 35; DB 15; Length 20;
Best Local Similarity 66.7%; Pred. No. 1e+02;
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      2 VVPVHAQDG 10
      |||:|:|
Db      12 VVPLHRSDG 20

RESULT 8
US-08-424-550B-366
; Sequence 366, Application US/08424550B
; Publication No. US20020119447A1
; GENERAL INFORMATION:
; APPLICANT: JOHN N. SIMONS
; APPLICANT: TAMI J. PILOT-MATIAS
; APPLICANT: GEORGE J. DAWSON
; APPLICANT: GEORGE G. SCHLAUDER
; APPLICANT: SURESH M. DESAI
; APPLICANT: THOMAS P. LEARY
; APPLICANT: ANTHONY SCOTT MUEHROFF
; APPLICANT: JAMES C. ERKER
; APPLICANT: SHERI L. BUIJK
```

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; APPLICANT: ISA K. MUSHAWAR
; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS
; REAGENTS AND METHODS FOR THEIR USE
; NUMBER OF SEQUENCES: 716
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ABBOTT LABORATORIES D377/AP6D
; STREET: 100 ABBOTT PARK ROAD
; CITY: ABBOTT PARK
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/424,550B
; FILING DATE:
; CLASSIFICATION: 435435
; ATTORNEY/AGENT INFORMATION:
; NAME: FOREMSKI, PRISCILLA E.
; REGISTRATION NUMBER: 33,207
; REFERENCE/DOCKET NUMBER: 5527.PC.01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-937-6365
; TELEFAX: 708-938-2623
; INFORMATION FOR SEQ ID NO: 366:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-424-550B-366

Query Match      30.8%; Score 32; DB 8; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.4e+02;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 VPVHAQ 8
      |||||
Db      4 VPVHAQ 9

RESULT 9
US-10-468-543-13
; Sequence 13, Application US/10468543
; Publication No. US20040091938A1
; GENERAL INFORMATION:
; APPLICANT: Irimura, Tatsuro
; APPLICANT: Matsumoto, Mariko
; APPLICANT: Yim, Mijung
; APPLICANT: Ono, Takashi
; TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same
; FILE REFERENCE: 03-786
; CURRENT APPLICATION NUMBER: US/10/468,543
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: JP 2001-044221
; PRIOR FILING DATE: 2001-02-20
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Generated from randomly recombinant DNA part of MAH.
US-10-468-543-13

Query Match      29.8%; Score 31; DB 15; Length 11;
Best Local Similarity 62.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 2 VVPVHAQD 9
Db 2 VNPPLHQD 9

; NUMBER OF SEQ ID NOS: 492
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 14
; TYPE: PRT
; ORGANISM: homo sapien
US-09-826-290-39

Query Match 29.8%; Score 31; DB 9; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 9 DGDALTMRNVTD 20
Db 2 DGDITIFSNOVE 13

RESULT 10
US-10-256-850-53
; Sequence 53, Application US/10256850
; Publication No. US20040024178A1
; GENERAL INFORMATION:
; APPLICANT: ASHMAN, STEPHEN
; APPLICANT: BLACK, MICHAEL T.
; APPLICANT: BRUNTON, GORDON
; APPLICANT: HUMPHRIES, ALFRED JOHN
; APPLICANT: MOORE, KEITH JAMES
; TITLE OF INVENTION: BACTERIAL SIGNAL PEPTIDASE INHIBITORS
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: P32237
; CURRENT APPLICATION NUMBER: US/10/256,850
; CURRENT FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: 09/890,633
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: PCT/EP00/00751
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: GB 9902399.6
; PRIOR FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 64
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 13
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Intermediate peptide resin
US-10-256-850-53

Query Match 29.8%; Score 31; DB 15; Length 13;
Best Local Similarity 62.5%; Pred. No. 2.8e+02;
Matches 5; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 VVPVHAQD 10
Db 3 LPFAHAQD 10

; NUMBER OF SEQ ID NOS: 492
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 61
; LENGTH: 14
; TYPE: PRT
; ORGANISM: homo sapien
US-09-826-290-61

Query Match 29.8%; Score 31; DB 9; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 9 DGDALTMRNVTD 20
Db 2 DGDITIFSNOVE 13

RESULT 11
US-09-826-290-39
; Sequence 39, Application US/09826290
; Patent No. US20020164668A1
; GENERAL INFORMATION:
; APPLICANT: Durham, L. Kathryn
; APPLICANT: Friedmann, David L.
; APPLICANT: Herath, Herath Mudiyanseelage Athula Chandrasiri
; APPLICANT: Kimmel, Lida H.
; APPLICANT: Parekh, Rajesh Bhikhu
; APPLICANT: Potter, David M.
; APPLICANT: Rohlf, Christian
; APPLICANT: Silber, B. Michael
; APPLICANT: Stiger, Thomas R.
; APPLICANT: Sunderland, P. Trey
; APPLICANT: Townsend, Robert Reid
; APPLICANT: White, Frost
; APPLICANT: Williams, Stephen A.
; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
; TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of
; TITLE OF INVENTION: Alzheimer's Disease
; FILE REFERENCE: 2572-1-001 N2
; CURRENT APPLICATION NUMBER: US/09/826,290
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 60/194,504
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 60/253,647
; PRIOR FILING DATE: 2000-11-28

RESULT 12
US-09-826-290-61
; Sequence 61, Application US/09826290
; Patent No. US20020164668A1
; GENERAL INFORMATION:
; APPLICANT: Durham, L. Kathryn
; APPLICANT: Friedmann, David L.
; APPLICANT: Herath, Herath Mudiyanseelage Athula Chandrasiri
; APPLICANT: Kimmel, Lida H.
; APPLICANT: Parekh, Rajesh Bhikhu
; APPLICANT: Potter, David M.
; APPLICANT: Rohlf, Christian
; APPLICANT: Silber, B. Michael
; APPLICANT: Stiger, Thomas R.
; APPLICANT: Sunderland, P. Trey
; APPLICANT: Townsend, Robert Reid
; APPLICANT: White, Frost
; APPLICANT: Williams, Stephen A.
; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
; TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of
; TITLE OF INVENTION: Alzheimer's Disease
; FILE REFERENCE: 2572-1-001 N2
; CURRENT APPLICATION NUMBER: US/09/826,290
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 60/194,504
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 60/253,647
; PRIOR FILING DATE: 2000-11-28

RESULT 13
US-09-826-290-415
; Sequence 415, Application US/09826290
; Patent No. US20020164668A1
; GENERAL INFORMATION:
; APPLICANT: Durham, L. Kathryn
; APPLICANT: Friedmann, David L.
; APPLICANT: Herath, Herath Mudiyanseelage Athula Chandrasiri
; APPLICANT: Kimmel, Lida H.
; APPLICANT: Parekh, Rajesh Bhikhu
; APPLICANT: Potter, David M.
```



```

; APPLICANT: Rohlf, Christian
; APPLICANT: Silber, B. Michael
; APPLICANT: Stiger, Thomas R.
; APPLICANT: Sunderland, P. Trev
; APPLICANT: Townsend, Robert Reid
; APPLICANT: White, Frost
; APPLICANT: Williams, Stephen A.
; TITLE OF INVENTION: Nucleic Acid Molecules, Polypeptides and
; TITLE OF INVENTION: Uses Therefor, Including Diagnosis and Treatment of
; TITLE OF INVENTION: Alzheimer's Disease
; FILE REFERENCE: 2572-1-001 N2
; CURRENT APPLICATION NUMBER: US/09/826,290
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US 60/194,504
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 60/253,647
; PRIOR FILING DATE: 2000-11-28
; NUMBER OF SEQ ID NOS: 492
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 415
; LENGTH: 14
; TYPE: PRT
; ORGANISM: homo sapien
; US-09-826-290-415

Query Match          29.8%; Score 31; DB 9; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 9 DGDATMRNVTD 20
Db 2 DGDITFSNVQE 13

RESULT 14
US-10-264-309-190
; Sequence 190, Application US/10264309
; Publication No. US20040022794A1
; GENERAL INFORMATION:
; APPLICANT: DURHAM, L. KATHRYN
; APPLICANT: FRIEDMAN, DAVID L.
; APPLICANT: HERATH, HERATH
; APPLICANT: KIMMEL, LIDA H.
; APPLICANT: PAREKH, RAJESH B.
; APPLICANT: POTTER, DAVID M.
; APPLICANT: ROHLFF, CHRISTIAN
; APPLICANT: SILBER, B. MICHAEL
; APPLICANT: SNYDER, PETER J.
; APPLICANT: SOARES, HOLLY D.
; APPLICANT: STIGER, THOMAS R.
; APPLICANT: SUNDERLAND, P. TREV
; APPLICANT: TOWNSEND, ROBERT R.
; APPLICANT: WHITE, W. FROST
; APPLICANT: WILLIAMS, STEPHEN A.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES, POLYPEPTIDES AND USES THEREFOR,
; TITLE OF INVENTION: INCLUDING DIAGNOSIS AND TREATMENT OF ALZHEIMER'S DISEASE
; FILE REFERENCE: POA-002.01
; CURRENT APPLICATION NUMBER: US/10/264,309
; CURRENT FILING DATE: 2002-10-03
; PRIOR APPLICATION NUMBER: 60/326,708
; PRIOR FILING DATE: 2001-10-03
; NUMBER OF SEQ ID NOS: 491
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 190
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-264-309-190

Query Match          29.8%; Score 31; DB 15; Length 14;
Best Local Similarity 50.0%; Pred. No. 3.1e+02;
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

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QY 9 DGDATMRNVTD 20
Db 2 DGDITFSNVQE 13

RESULT 15
US-10-416-090-2
; Sequence 2, Application US/10416090
; Publication No. US20040071711A1
; GENERAL INFORMATION:
; APPLICANT: Bicknell, Roy
; APPLICANT: Huminiacki, Lukasz
; TITLE OF INVENTION: IMAGING, DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: DISEASE
; FILE REFERENCE: 12795-015U1
; CURRENT APPLICATION NUMBER: US/10/416,090
; CURRENT FILING DATE: 2003-10-15
; PRIOR APPLICATION NUMBER: PCT/US01/04906
; PRIOR FILING DATE: 2001-11-06
; PRIOR APPLICATION NUMBER: US 60/245,566
; PRIOR FILING DATE: 2000-11-06
; PRIOR APPLICATION NUMBER: US 60/273,662
; PRIOR FILING DATE: 2001-03-07
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated peptide
; US-10-416-090-2

Query Match          29.8%; Score 31; DB 15; Length 20;
Best Local Similarity 55.6%; Pred. No. 4.7e+02;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 6 HAQDGDAT 14
Db 9 HAHDGQALS 17

Search completed: January 26, 2005, 16:54:57
Job time : 56.5 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-17  
Perfect score: 104  
Sequence: 1 GVVPVHAQGDATNRNVTD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	73	70.2	20	3	US-08-467-023-40
2	62	59.6	15	4	US-09-142-524D-43
3	54	51.9	15	4	US-09-142-524D-44
4	43	41.3	15	4	US-09-142-524D-42
5	43	41.3	20	3	US-08-467-023-39
6	37	35.6	19	4	US-09-106-568E-91
7	32	30.8	16	4	US-08-469-260A-366
8	32	30.8	16	4	US-08-488-446-366
9	32	30.8	16	4	US-08-467-344A-366
10	32	30.8	16	4	US-08-424-550B-366
11	30	28.8	15	4	US-09-142-524D-45
12	30	28.8	20	3	US-08-467-023-41
13	30	28.8	20	4	US-09-643-597-248
14	30	28.8	20	4	US-09-480-884A-248
15	30	28.8	20	4	US-09-542-615A-248
16	30	28.8	20	4	US-09-606-421B-248
17	30	28.8	20	4	US-09-476-496A-248
18	30	28.8	20	4	US-09-630-940B-248
19	29	27.9	20	3	US-08-928-917C-13
20	29	27.9	20	3	US-09-247-527-18
21	29	27.9	20	4	US-09-374-678-13
22	29	27.9	20	4	US-09-308-368-12
23	29	27.9	20	4	US-09-308-368-21
24	28	26.9	15	4	US-09-073-009-91
25	28	26.9	15	4	US-09-073-010-91
26	28	26.9	17	2	US-08-955-138-115
27	28	26.9	18	3	US-09-252-586-27

ALIGNMENTS

RESULT 1

US-08-467-023-40  
; Sequence 40, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467.023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 40:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

Sequence 43, Appl  
Sequence 48, Appl  
Sequence 3, Appl  
Sequence 22, Appl  
Sequence 17, Appl  
Sequence 17, Appl  
Sequence 17, Appl  
Sequence 2, Appl  
Sequence 2, Appl  
Sequence 5, Appl  
Sequence 36, Appl  
Sequence 36, Appl  
Sequence 36, Appl  
Sequence 28, Appl  
Sequence 28, Appl  
Sequence 15, Appl  
Sequence 15, Appl  
Sequence 1, Appl

US-08-467-023-40

Query Match 70.2%; Score 73; DB 3; Length 20;  
Best Local Similarity 65.0%; Pred. No. 6.3e-06;  
Matches 13; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 GVPVHAQDGDALTRNVTD 20  
DB 1 GVEPVHPQDGLTLRTATN 20

RESULT 2

US-09-142-524D-43  
; Sequence 43, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 43  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 29  
US-09-142-524D-43

Query Match 59.6%; Score 62; DB 4; Length 15;  
Best Local Similarity 73.3%; Pred. No. 0.00034;  
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 GVPVHAQDGDALTRNVTD 15  
DB 1 GVEPVHPQDGLTLRTATN 15

RESULT 3

US-09-142-524D-44  
; Sequence 44, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30  
US-09-142-524D-44

Query Match 51.9%; Score 54; DB 4; Length 15;  
Best Local Similarity 60.0%; Pred. No. 0.008;  
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 6 HAQDGDALTRNVTD 20  
DB 1 HPODGDALTLRTATN 15

RESULT 4

US-09-142-524D-42  
; Sequence 42, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 42  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 28  
US-09-142-524D-42

Query Match 41.3%; Score 43; DB 4; Length 15;  
Best Local Similarity 80.0%; Pred. No. 0.61;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GVPVHAQDGD 10  
DB 6 GVEPVHPQDGD 15

RESULT 5

US-08-467-023-39  
; Sequence 39, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 39:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-39

Query Match 41.3%; Score 43; DB 3; Length 20;  
Best Local Similarity 80.0%; Pred. No. 0.87;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GVVPVHAQDG 10  
||| ||| |||  
DB 11 GVPEVHPQDG 20

RESULT 6  
US-09-106-568E-91  
Sequence 91, Application US/09106568E  
Patent No. 6455248  
GENERAL INFORMATION:  
APPLICANT: Bhattacharjee, J.  
APPLICANT: Suvarna, Kalavati  
APPLICANT: Bhattacharjee, Vasker  
TITLE OF INVENTION: METHODS AND REAGENTS FOR DETECTING FUNGAL PATHOGENS IN  
TITLE OF INVENTION: A BIOLOGICAL SAMPLE  
FILE REFERENCE: 96,247-A  
CURRENT APPLICATION NUMBER: US/09/106,568E  
CURRENT FILING DATE: 1998-06-29  
PRIOR APPLICATION NUMBER: 08/650,809  
PRIOR FILING DATE: 1997-05-20  
NUMBER OF SEQ ID NOS: 160  
SOFTWARE: Microsoft Word 97  
SEQ ID NO 91  
LENGTH: 19  
TYPE: PRT  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Polypeptide segment of ACVS\_CEPAC shown in Figure 4.  
US-09-106-568E-91

Query Match 35.6%; Score 37; DB 4; Length 19;  
Best Local Similarity 66.7%; Pred. No. 8.7;  
Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 VEVHAQDGD 11  
||| ||| |||  
DB 9 VPTHQDGE 17

RESULT 7  
US-08-469-260A-366

Sequence 366, Application US/08469260A  
Patent No. 6451578  
GENERAL INFORMATION:  
APPLICANT: JOHN N. SIMONS  
APPLICANT: TAMI J. PILOT-MATTIAS  
APPLICANT: GEORGE J. DAWSON  
APPLICANT: GEORGE G. SCHLAUDER  
APPLICANT: SURESH M. DESAI  
APPLICANT: THOMAS P. LEARY  
APPLICANT: ANTHONY SCOTT MUERHOFF  
APPLICANT: JAMES C. ERKER  
APPLICANT: SHERI L. BUIJK  
APPLICANT: ISA K. MUSHAWAR  
TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS  
TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE  
NUMBER OF SEQUENCES: 716  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ABBOTT LABORATORIES D377/AP6D  
STREET: 100 ABBOTT PARK ROAD  
CITY: ABBOTT PARK  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/469,260A  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/424,550  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: POREMBSKI, PRISCILLA E.  
REGISTRATION NUMBER: 33,207  
REFERENCE/DOCKET NUMBER: 5527.PC.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 708-937-6365  
TELEFAX: 708-938-2623  
INFORMATION FOR SEQ ID NO: 366:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-469-260A-366

Query Match 30.8%; Score 32; DB 4; Length 16;  
Best Local Similarity 100.0%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 VPVHAQ 8  
||| ||| |||  
DB 4 VPVHAQ 9

RESULT 8  
US-08-488-446-366  
Sequence 366, Application US/08488446  
Patent No. 655898  
GENERAL INFORMATION:  
APPLICANT: JOHN N. SIMONS  
APPLICANT: TAMI J. PILOT-MATTIAS  
APPLICANT: GEORGE J. DAWSON  
APPLICANT: GEORGE G. SCHLAUDER  
APPLICANT: SURESH M. DESAI  
APPLICANT: THOMAS P. LEARY  
APPLICANT: ANTHONY SCOTT MUERHOFF  
APPLICANT: JAMES C. ERKER  
APPLICANT: SHERI L. BUIJK

APPLICANT: ISA K. MUSHAWHAR  
 TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS  
 TITLE OF INVENTION: REAGENTS AND METHODS FOR THEIR USE  
 NUMBER OF SEQUENCES: 716  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: ABBOTT LABORATORIES D377/AP6D  
 STREET: 100 ABBOTT PARK ROAD  
 CITY: ABBOTT PARK  
 STATE: IL  
 COUNTRY: USA  
 ZIP: 60084-3500  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/488,446  
 FILING DATE:  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/424,550  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FOREMSKI, PRISCILLA E.  
 REGISTRATION NUMBER: 33,207  
 REFERENCE/DOCKET NUMBER: 5527.PC.01  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 708-937-6365  
 TELEFAX: 708-938-2623  
 INFORMATION FOR SEQ ID NO: 366:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 16 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-488-446-366

Query Match 30.8%; Score 32; DB 4; Length 16;  
 Best Local Similarity 100.0%; Pred. No. 51;  
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 3 VPVHAQ 8  
 DB 4 VPVHAQ 9

RESULT 9  
 US-08-467-344A-366  
 ; Sequence 366, Application US/08467344A  
 ; Patent No. 6586568  
 ; GENERAL INFORMATION:  
 ; APPLICANT: JOHN N. SIMONS  
 ; TAMI J. PILOT-MATIAS  
 ; GEORGE J. DAWSON  
 ; GEORGE G. SCHLAUDER  
 ; SURESH M. DESAI  
 ; THOMAS P. LEARY  
 ; ANTHONY SCOTT MUEHROFF  
 ; JAMES C. ERKER  
 ; SHERI L. BUIJK  
 ; ISA K. MUSHAWHAR  
 ; TITLE OF INVENTION: NON-A, NON-B, NON-C, NON-D, NON-E HEPATITIS  
 ; REAGENTS AND METHODS FOR THEIR USE  
 ; NUMBER OF SEQUENCES: 716  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: ABBOTT LABORATORIES D377/AP6D  
 ; STREET: 100 ABBOTT PARK ROAD  
 ; CITY: ABBOTT PARK  
 ; STATE: IL  
 ; COUNTRY: USA  
 ; ZIP: 60064-3500  
 ; COMPUTER READABLE FORM:

REFERENCE/DOCKET NUMBER: 5527.PC.01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 708-937-6365  
TELEFAX: 708-938-2623  
INFORMATION FOR SEQ ID NO: 366:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-424-550B-366

Query Match 30.8%; Score 32; DB 4; Length 16;  
Best Local Similarity 100.0%; Pred. No. 51;  
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 VPVHAQ 8  
DB 4 VPVHAQ 9

## RESULT 11

US-09-142-524D-45  
Sequence 45, Application US/09142524D  
Patent No. 6719976

## GENERAL INFORMATION:

APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinori  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiho  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103  
CURRENT APPLICATION NUMBER: US/09/142,524D  
CURRENT FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 45  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(15)  
OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 31  
US-09-142-524D-45

Query Match 28.8%; Score 30; DB 4; Length 15;  
Best Local Similarity 50.0%; Pred. No. 1e+02;  
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 11 DAITMRNVTD 20  
DB 1 DALTLRTATN 10

## RESULT 12

US-08-467-023-41  
Sequence 41, Application US/08467023  
Patent No. 6090386

## GENERAL INFORMATION:

APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From

TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 41:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-41

Query Match 28.8%; Score 30; DB 3; Length 20;  
Best Local Similarity 50.0%; Pred. No. 1.5e+02;  
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 11 DAITMRNVTD 20  
DB 1 DALTLRTATN 10

## RESULT 13

US-09-643-597-248  
Sequence 248, Application US/09643597  
Patent No. 6426072

## GENERAL INFORMATION:

APPLICANT: Wang, Tongtong  
APPLICANT: Fan, Liqun  
APPLICANT: Kalos, Michael D.  
APPLICANT: Bangur, Chaitanya S.  
APPLICANT: Hosken, Nancy  
APPLICANT: Fanger, Gary R.  
APPLICANT: Li, Samuel X.  
APPLICANT: Wang, Aijun  
APPLICANT: Skeiky, Yasir A.W.  
APPLICANT: Henderson, Robert A.  
APPLICANT: McNeill, Patricia D.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
FILE REFERENCE: 210121.455C11  
CURRENT APPLICATION NUMBER: US/09/643,597  
CURRENT FILING DATE: 2000-08-21  
NUMBER OF SEQ ID NOS: 369  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 248  
LENGTH: 20  
TYPE: PRT  
ORGANISM: Homo sapiens

QY 8 QDGDATMRNVT D 20  
: : : : : :



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-18

Perfect score: 107

Sequence: 1 DAITWRNVTVDWIDHNSLSD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications AA:\*
- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
  - 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
  - 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
  - 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
  - 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
  - 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
  - 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
  - 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
  - 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
  - 17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
  - 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
  - 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
  - 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	62	57.9	15	14 US-10-354-240-45	Sequence 45, Appl
2	58	54.2	15	14 US-10-354-240-46	Sequence 46, Appl
3	47	43.9	15	14 US-10-354-240-47	Sequence 47, Appl
4	40	37.4	16	14 US-10-225-567A-1876	Sequence 1876, Ap
5	37	34.6	13	17 US-10-473-127-211	Sequence 211, App
6	36	33.6	19	9 US-09-864-761-41072	Sequence 41072, A
7	35	32.7	15	14 US-10-011-095-32	Sequence 32, Appl
8	35	32.7	15	14 US-10-010-667A-32	Sequence 32, Appl
9	35	32.7	15	14 US-10-165-044-33	Sequence 33, Appl
10	35	32.7	15	15 US-10-408-009-30	Sequence 30, Appl
11	35	32.7	15	17 US-10-856-109-30	Sequence 30, Appl
12	35	32.7	15	17 US-10-857-785-30	Sequence 30, Appl
13	35	32.7	15	17 US-10-753-195-33	Sequence 33, Appl

14	34	31.8	14	15	US-10-432-422-88	Sequence 88, Appl
15	34	31.8	20	14	US-10-225-567A-1795	Sequence 1795, Ap
16	33	30.8	16	14	US-10-225-567A-1745	Sequence 1745, Ap
17	32	29.9	16	10	US-09-985-529-92	Sequence 92, Appl
18	32	29.9	16	11	US-09-985-529-92	Sequence 92, Appl
19	32	29.9	18	10	US-09-397-945-235	Sequence 235, App
20	32	29.9	18	15	US-10-653-595-235	Sequence 235, App
21	32	29.9	19	10	US-09-977-797A-116	Sequence 116, App
22	31	29.0	14	15	US-10-312-311-6	Sequence 6, Appli
23	31	29.0	15	15	US-10-442-909-49	Sequence 49, Appl
24	31	29.0	18	14	US-10-084-813-46	Sequence 46, Appl
25	30	28.0	9	10	US-09-793-451-424	Sequence 424, App
26	30	28.0	9	10	US-09-793-451-440	Sequence 440, App
27	30	28.0	9	14	US-10-283-722-424	Sequence 424, App
28	30	28.0	9	14	US-10-283-722-440	Sequence 440, App
29	30	28.0	9	14	US-10-283-903-424	Sequence 424, App
30	30	28.0	9	14	US-10-283-903-440	Sequence 440, App
31	30	28.0	10	10	US-09-793-451-105	Sequence 105, App
32	30	28.0	10	10	US-09-793-451-405	Sequence 405, App
33	30	28.0	10	14	US-10-283-722-105	Sequence 105, App
34	30	28.0	10	14	US-10-283-722-405	Sequence 405, App
35	30	28.0	10	14	US-10-283-903-105	Sequence 105, App
36	30	28.0	10	14	US-10-283-903-405	Sequence 405, App
37	30	28.0	10	17	US-10-700-330-56	Sequence 56, Appli
38	30	28.0	13	14	US-10-285-649A-4	Sequence 44, Appl
39	30	28.0	15	14	US-10-354-240-44	Sequence 45, Appl
40	30	28.0	16	14	US-10-378-173-45	Sequence 46, Appl
41	30	28.0	16	14	US-10-378-173-46	Sequence 46, Appl
42	30	28.0	17	15	US-10-609-217-198	Sequence 198, App
43	30	28.0	17	15	US-10-632-388-198	Sequence 198, App
44	30	28.0	17	15	US-10-651-723-198	Sequence 198, App
45	30	28.0	17	15	US-10-645-761-198	Sequence 198, App

ALIGNMENTS

RESULT 1  
US-10-354-240-45  
; Sequence 45, Application US/10354240.  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwana, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JF97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 45  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 31  
US-10-354-240-45

Query Match 57.9%; Score 62; DB 14; Length 15;  
Best Local Similarity 60.0%; Pred No. 0.007;  
Matches 9; Conservative 4; Mismatches 2; Indels 0; Gaps 0;  
QY 1 DAITWRNVTVDWIDH 15  
||:|:| |:|

Db 1 DALTLRTATNIWDH 15

RESULT 2

US-10-354-240-46

; Sequence 46, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 46

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 32

US-10-354-240-46

Query Match 54.2%; Score 58; DB 14; Length 15;

Best Local Similarity 60.0%; Pred. No. 0.03;

Matches 9; Conservative 3; Mismatches 3; Indels 3; Gaps 0;

Oy 6 RNVTVDWIDHNSLSD 20

Db 1 RTATNIWDHNSFSN 15

RESULT 3

US-10-354-240-47

; Sequence 47, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 47

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 33

US-10-354-240-47

Query Match 43.9%; Score 47; DB 14; Length 15;

Best Local Similarity 70.0%; Pred. No. 1.6;

Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Oy 11 VWIDHNSLSD 20

Db 1 IWIDHNSFSN 10

RESULT 4

US-10-225-567A-1876

; Sequence 1876, Application US/10225567A

; Publication No. US20030113798A1

; GENERAL INFORMATION:

; APPLICANT: LifeSpan Biosciences

; APPLICANT: Brown, Joseph P.

; APPLICANT: Burmer, Glenna C.

; APPLICANT: Roush, Christine L.

; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS

; FILE REFERENCE: 1920-4-4

; CURRENT APPLICATION NUMBER: US/10/225,567A

; CURRENT FILING DATE: 2001-12-19

; PRIOR APPLICATION NUMBER: 60/257,144

; PRIOR FILING DATE: 2000-12-19

; NUMBER OF SEQ ID NOS: 2292

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1876

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-225-567A-1876

Query Match 37.4%; Score 40; DB 14; Length 16;

Best Local Similarity 54.5%; Pred. No. 21;

Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Oy 4 TMRNVTDWID 14

Db 2 TIENATDIWQD 12

RESULT 5

US-10-473-127-211

; Sequence 211, Application US/10473127

; Publication No. US20040236091A1

; GENERAL INFORMATION:

; APPLICANT: Zycos Inc.

; TITLE OF INVENTION: TRANSLATIONAL PROFILING

; FILE REFERENCE: 08191-026W01

; CURRENT APPLICATION NUMBER: US/10/473,127

; CURRENT FILING DATE: 2003-09-26

; PRIOR APPLICATION NUMBER: 60/279,495

; PRIOR FILING DATE: 2001-03-28

; PRIOR APPLICATION NUMBER: 60/292,544

; PRIOR FILING DATE: 2001-05-21

; PRIOR APPLICATION NUMBER: 60/310,801

; PRIOR FILING DATE: 2001-08-08

; PRIOR APPLICATION NUMBER: 60/326,370

; PRIOR FILING DATE: 2001-10-01

; PRIOR APPLICATION NUMBER: 60/336,780

; PRIOR FILING DATE: 2001-12-04

; PRIOR APPLICATION NUMBER: 60/358,985

; PRIOR FILING DATE: 2002-02-20

; NUMBER OF SEQ ID NOS: 2041

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 211

; LENGTH: 13

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-473-127-211

Query Match 34.6%; Score 37; DB 17; Length 13;

Best Local Similarity 60.0%; Pred. No. 50;

Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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QY      11  VMDHNSUSD 20
          |::|||::|
Db       1  VFLDHNALPD 10

RESULT 6
US-09-864-761-41072
; Sequence 41072, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aesomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 41072
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL121585.13
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.6
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.6
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.5
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.1
; OTHER INFORMATION: EST_HUMAN HIT: A1719171.1, EVALUATE 4.00e-04
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US-09-864-761-41072

Query Match      33.6%; Score 36; DB 9; Length 19;
Best Local Similarity 50.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2  AITWRNVTDVWI 13
          :||| |::|
Db       5  SLTWRVTQTKLWI 16

RESULT 7
US-10-011-095-32
; Sequence 32, Application US/10011095
; Publication No. US20030045682A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Saffran, Douglas C.
; APPLICANT: Mitchell, Steve Chappell
; TITLE OF INVENTION: ANTIBODIES IMMUNOSPECIFIC FOR STEAP1 (AS AMENDED)
; FILE REFERENCE: 511582001601
; CURRENT APPLICATION NUMBER: US/10/011,095
; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-011-095-32

Query Match      32.7%; Score 35; DB 14; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      6  RNVTDVMDH 15
          :| | |::|
Db       6  QNKEDAWIEH 15
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RESULT 8
US-10-010-667A-32
; Sequence 32, Application US/10010667A
; Publication No. US20030055217A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Hubert, Rene S.
; APPLICANT: Leong, Kahan
; APPLICANT: Raitano, Arthur B.
; APPLICANT: Saffran, Douglas C.
; APPLICANT: Mitchell, Steve Chappell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 511582001601
; CURRENT APPLICATION NUMBER: US/10/010,667A
; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 32
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-010-667A-32

Query Match      32.7%; Score 35; DB 14; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      6 RNVTDVWIDH 15
Db      6 QNKEDAWIEH 15

RESULT 9
US-10-165-044-33
; Sequence 33, Application US/10165044
; Publication No. US20030149531A1
; GENERAL INFORMATION:
; APPLICANT: Ageneys, Inc.
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas Safran
; APPLICANT: Daniel E.H. Afar
; APPLICANT: Steven Chappell Mitchell
; APPLICANT: Mary Faris
; APPLICANT: Aya Jakobovits
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 51158-20016.02
; CURRENT APPLICATION NUMBER: US/10/165,044
; CURRENT FILING DATE: 2002-06-06
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: WO 99/62941
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: PCT/US00/33040
; PRIOR FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-165-044-33

Query Match      32.7%; Score 35; DB 14; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      6 RNVTDVWIDH 15
Db      6 QNKEDAWIEH 15

RESULT 10
US-10-408-009-30
; Sequence 30, Application US/10408009
; Publication No. US20040072196A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Safran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
```

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; TITLE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF
; FILE REFERENCE: 511582001603
; CURRENT APPLICATION NUMBER: US/10/408,009
; CURRENT FILING DATE: 2003-04-04
; PRIOR APPLICATION NUMBER: 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: 09/323,873
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-009-30

Query Match      32.7%; Score 35; DB 15; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      6 RNVTDVWIDH 15
Db      6 QNKEDAWIEH 15

RESULT 11
US-10-856-109-30
; Sequence 30, Application US/10856109
; Publication No. US20040219591A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Safran
; APPLICANT: Stephen C. Mitchell
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS
; FILE REFERENCE: 511582001606
; CURRENT APPLICATION NUMBER: US/10/856,109
; CURRENT FILING DATE: 2004-05-28
; PRIOR APPLICATION NUMBER: US 09/455,486
; PRIOR FILING DATE: 1999-12-06
; PRIOR APPLICATION NUMBER: US 09/323,873
; PRIOR FILING DATE: 1999-06-01
; PRIOR APPLICATION NUMBER: US 60/087,520
; PRIOR FILING DATE: 1998-06-01
; PRIOR APPLICATION NUMBER: US 60/091,183
; PRIOR FILING DATE: 1998-06-30
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-856-109-30

Query Match      32.7%; Score 35; DB 17; Length 15;
Best Local Similarity 50.0%; Pred. No. 1.2e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy      6 RNVTDVWIDH 15
Db      6 QNKEDAWIEH 15

RESULT 12
US-10-857-785-30
; Sequence 30, Application US/10857785
; Publication No. US20040219162A1
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Arthur B. Raitano
```

; APPLICANT: Douglas C. Saffran  
; APPLICANT: Stephen C. Mitchell  
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS  
; FILE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF  
; FILE REFERENCE: 511582001607  
; CURRENT APPLICATION NUMBER: US/10/857,785  
; CURRENT FILING DATE: 2004-05-28  
; PRIOR FILING DATE: 1999-12-06  
; PRIOR APPLICATION NUMBER: US 09/323,873  
; PRIOR FILING DATE: 1999-06-01  
; PRIOR APPLICATION NUMBER: US 60/087,520  
; PRIOR FILING DATE: 1998-06-01  
; PRIOR APPLICATION NUMBER: US 60/091,183  
; PRIOR FILING DATE: 1998-06-30  
; NUMBER OF SEQ ID NOS: 47  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 30  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-857-785-30

Query Match 32.7%; Score 35; DB 17; Length 15;  
Best Local Similarity 50.0%; Pred. No. 1.2e+02;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 6 RNVTDVWIDH 15  
:|:|:|:|:|  
Db 6 QNKEDAWIEH 15

RESULT 13  
US-10-753-195-33  
; Sequence 33, Application US/10753195  
; Publication No. US20050004349A1  
; GENERAL INFORMATION:  
; APPLICANT: Agensys, Inc.  
; APPLICANT: Rene S. Hubert  
; APPLICANT: Arthur B. Raitano  
; APPLICANT: Douglas Saffran  
; APPLICANT: Daniel E.H. Afar  
; APPLICANT: Steven Chappell Mitchell  
; APPLICANT: Mary Faris  
; APPLICANT: Ava Jakobovits  
; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS  
; FILE OF INVENTION: EXPRESSED IN HUMAN CANCERS AND USES THEREOF  
; FILE REFERENCE: 51158-20016.02  
; CURRENT APPLICATION NUMBER: US/10/753,195  
; CURRENT FILING DATE: 2004-01-06  
; PRIOR APPLICATION NUMBER: US/10/165,044  
; PRIOR FILING DATE: 2002-06-06  
; PRIOR APPLICATION NUMBER: US 60/087,520  
; PRIOR FILING DATE: 1998-06-01  
; PRIOR APPLICATION NUMBER: US 60/091,183  
; PRIOR FILING DATE: 1998-06-30  
; PRIOR APPLICATION NUMBER: US 09/323,873  
; PRIOR FILING DATE: 1999-06-01  
; PRIOR APPLICATION NUMBER: US 09/455,486  
; PRIOR FILING DATE: 1999-12-06  
; PRIOR APPLICATION NUMBER: WO 99/62941  
; PRIOR FILING DATE: 1999-06-01  
; PRIOR APPLICATION NUMBER: PCT/US00/33040  
; PRIOR FILING DATE: 2000-12-06  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 33  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-753-195-33

Query Match 32.7%; Score 35; DB 17; Length 15;

Best Local Similarity 50.0%; Pred. No. 1.2e+02;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
QY 6 RNVTDVWIDH 15  
:|:|:|:|:|  
Db 6 QNKEDAWIEH 15

RESULT 14  
US-10-432-422-88  
; Sequence 88, Application US/10432422  
; Publication No. US200400076981A1  
; GENERAL INFORMATION:  
; APPLICANT: Syngenta Participations AG  
; APPLICANT: Cornell Research Foundation, Inc.  
; APPLICANT: Yoder, Olen  
; APPLICANT: Turgeon, Barbara G.  
; APPLICANT: Lu, Shen-wen  
; TITLE OF INVENTION: Fungal Iron Reductase Gene  
; FILE REFERENCE: 1360.017W01  
; CURRENT APPLICATION NUMBER: US/10/432,422  
; CURRENT FILING DATE: 2003-05-21  
; PRIOR APPLICATION NUMBER: US 60/252,732  
; PRIOR FILING DATE: 2000-11-22  
; PRIOR APPLICATION NUMBER: US 60/252,649  
; PRIOR FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 210  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 88  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Cochliobolus heterostrophus  
US-10-432-422-88

Query Match 31.8%; Score 34; DB 15; Length 14;  
Best Local Similarity 50.0%; Pred. No. 1.6e+02;  
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 10 DVWIDHNSLS 19  
:|:|:|:|:|  
Db 2 EIWDSPSL 11

RESULT 15  
US-10-225-567A-1795  
; Sequence 1795, Application US/10225567A  
; Publication No. US20030113798A1  
; GENERAL INFORMATION:  
; APPLICANT: LifeSpan Biosciences  
; APPLICANT: Brown, Joseph P.  
; APPLICANT: Burmer, Glenn C.  
; APPLICANT: Roush, Christine L.  
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS  
; FILE REFERENCE: 1920-4-4  
; CURRENT APPLICATION NUMBER: US/10/225,567A  
; CURRENT FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 60/257,144  
; PRIOR FILING DATE: 2000-12-19  
; NUMBER OF SEQ ID NOS: 2292  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1795  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-225-567A-1795

Query Match 31.8%; Score 34; DB 14; Length 20;  
Best Local Similarity 40.0%; Pred. No. 2.4e+02;  
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 6 RNVTDVWIDHNSLSD 20  
:|:|:|:|:|  
Db 5 QTWTTWVHLALSD 19

Search completed: January 26, 2005, 16:54:58  
Job time : 56.5 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-18  
Perfect score: 107  
Sequence: 1 DAITWRNVTDVWIDHNSLSD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	77	72.0	20	3	US-08-467-023-41
2	62	57.9	15	4	US-09-142-524D-45
3	58	54.2	15	4	US-09-142-524D-46
4	58	54.2	20	3	US-08-467-023-203
5	55	51.4	18	3	US-08-467-023-210
6	53	49.5	16	3	US-08-467-023-212
7	53	49.5	18	3	US-08-467-023-211
8	47	43.9	15	4	US-09-142-524D-47
9	47	43.9	20	3	US-08-467-023-42
10	35	32.7	15	3	US-09-323-873A-32
11	34	31.8	15	3	US-08-981-122-77
12	30	28.0	15	4	US-09-142-524D-44
13	30	28.0	17	1	US-08-370-567-5
14	30	28.0	17	1	US-08-438-759-5
15	30	28.0	17	4	US-09-428-082B-198
16	30	28.0	17	5	PCT-US94-05684-5
17	30	28.0	20	3	US-08-467-023-40
18	29	27.1	16	3	US-08-462-436-22
19	29	27.1	16	3	US-08-465-275-22
20	29	27.1	16	4	US-08-640-877-22
21	29	27.1	16	4	US-09-799-576A-22
22	29	27.1	16	4	US-09-799-540-22
23	29	27.1	17	4	US-09-066-330-1
24	29	27.1	19	1	US-08-209-525-29
25	29	27.1	20	1	US-08-466-033-85
26	29	27.1	20	1	US-08-466-033-89
27	29	27.1	20	2	US-08-444-733-85

28	29	27.1	20	2	US-08-444-733-89	Sequence 89, Appl
29	29	27.1	20	2	US-08-464-134-85	Sequence 85, Appl
30	29	27.1	20	2	US-08-464-134-89	Sequence 89, Appl
31	29	27.1	20	2	US-08-461-361-85	Sequence 85, Appl
32	29	27.1	20	2	US-08-461-361-89	Sequence 89, Appl
33	29	27.1	20	2	US-08-485-910-85	Sequence 85, Appl
34	29	27.1	20	2	US-08-485-910-89	Sequence 89, Appl
35	29	27.1	20	5	PCT-US95-06266-69	Sequence 69, Appl
36	29	27.1	20	5	PCT-US95-06266-73	Sequence 73, Appl
37	28	26.2	7	1	US-08-787-547-6	Sequence 6, Appl
38	28	26.2	8	1	US-08-430-925A-7	Sequence 7, Appl
39	28	26.2	10	4	US-08-135-319A-2	Sequence 2, Appl
40	28	26.2	10	4	US-08-135-319A-3	Sequence 3, Appl
41	28	26.2	15	4	US-09-069-827A-59	Sequence 59, Appl
42	28	26.2	16	1	US-08-318-200-12	Sequence 12, Appl
43	28	26.2	16	4	US-09-914-695-30	Sequence 30, Appl
44	28	26.2	16	5	PCT-US92-10068-14	Sequence 14, Appl
45	28	26.2	17	2	US-08-818-253-12	Sequence 12, Appl

## ALIGNMENTS

RESULT 1  
US-08-467-023-41  
; Sequence 41, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; - APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/467.023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 41:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal





## RESULT 5

US-08-467-023-210  
 ; Sequence 210, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; TITLE OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 210:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 18 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-210

Query Match 51.4%; Score 55; DB 3; Length 18;  
 Best Local Similarity 60.0%; Pred. No. 0.025;  
 Matches 9; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 6 RNVTVDWIDHNSLSD 20  
 | | | | | | | | | |  
 Db 4 RTATNIWIDHNSDED 18

## RESULT 6

US-08-467-023-212  
 ; Sequence 212, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;

APPLICANT: Exley, Mark A.;  
 APPLICANT: Powers, Steven P.  
 TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/467,023  
 FILING DATE: June 6, 1995

CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/350,225  
 FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:  
 NAME: Jane E. Remillard  
 REGISTRATION NUMBER: 38,872  
 REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 227-7400  
 TELEFAX: (617) 227-5941  
 INFORMATION FOR SEQ ID NO: 212:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 16 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-467-023-212

Query Match 49.5%; Score 53; DB 3; Length 16;  
 Best Local Similarity 66.7%; Pred. No. 0.046;  
 Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 6 RNVTVDWIDHNS 17  
 | | | | | | | | | |  
 Db 2 RTATNIWIDHNS 13

## RESULT 7

US-08-467-023-211  
 ; Sequence 211, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.

TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 TITLE OF INVENTION: Japanese Cedar Pollen  
 NUMBER OF SEQUENCES: 261  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 STREET: 610 Lincoln St  
 CITY: Waltham  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02154

```
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/467,023
;; FILING DATE: June 6, 1995
;; CLASSIFICATION: 424
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/350,225
;; FILING DATE: December 6, 1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Jane E. Remillard
;; REGISTRATION NUMBER: 38,872
;; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 227-7400
;; TELEFAX: (617) 227-5941
;; INFORMATION FOR SEQ ID NO: 211:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: peptide
;; FRAGMENT TYPE: internal
;; US-08-467-023-211
;;
;; Query Match 49.5%; Score 53; DB 3; Length 18;
;; Best Local Similarity 66.7%; Pred. No. 0.052;
;; Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
;;
QY 6 RNVTDVWIDHNS 17
DB 4 RTATNIWIDHNS 15
|:|||||
|:|||||

RESULT 8
US-09-142-524D-47
; Sequence 47, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 33
US-09-142-524D-47
;;
;; Query Match 43.9%; Score 47; DB 4; Length 15;
;; Best Local Similarity 70.0%; Pred. No. 0.37;
;; Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
;;
QY 11 VWIDHNSLSD 20
DB 1 IWIDHNSFSN 10
:|||||
:|||||

US-09-323-873A-32
; Sequence 32, Application US/09323873A
; Patent No. 6329503
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Kahan Leong
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Safran
; APPLICANT: Steve Chappell Mitchell

US-08-467-023-42
; Sequence 42, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-42
;;
;; Query Match 43.9%; Score 47; DB 3; Length 20;
;; Best Local Similarity 70.0%; Pred. No. 0.52;
;; Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
;;
QY 11 VWIDHNSLSD 20
DB 1 IWIDHNSFSN 10
:|||||
:|||||

RESULT 10
US-09-323-873A-32
; Sequence 32, Application US/09323873A
; Patent No. 6329503
; GENERAL INFORMATION:
; APPLICANT: Daniel E. Afar
; APPLICANT: Rene S. Hubert
; APPLICANT: Kahan Leong
; APPLICANT: Arthur B. Raitano
; APPLICANT: Douglas C. Safran
; APPLICANT: Steve Chappell Mitchell
```

; TITLE OF INVENTION: NOVEL SERPENTINE TRANSMEMBRANE ANTIGENS  
; FILE REFERENCE: EXPRESSED IN HUMAN CANCERS AND USES THEREOF  
; CURRENT APPLICATION NUMBER: US/09/323,873A  
; PRIOR FILING DATE: 1999-06-01  
; PRIOR APPLICATION NUMBER: 60/087,520  
; PRIOR FILING DATE: 1998-06-01  
; PRIOR APPLICATION NUMBER: 60/091,183  
; PRIOR FILING DATE: 1998-06-30  
; NUMBER OF SEQ ID NOS: 32  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 32  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Homo Sapiens  
US-09-323-873A-32

Query Match 32.7%; Score 35; DB 3; Length 15;  
Best Local Similarity 50.0%; Pred. No. 29;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 6 RNVTDVWIDH 15  
DB 6 QNKEDAWIEH 15

RESULT 11  
US-08-981-122-77  
; Sequence 77, Application US/08981122B  
; Patent No. 6127339  
; GENERAL INFORMATION:  
; APPLICANT: Hatanaka, Yoshihiro  
; APPLICANT: Aritomi, Masaharu  
; TITLE OF INVENTION: Peptide for binding thereto a low density lipoprotein  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/08/981,122B  
; CURRENT FILING DATE: 1997-12-18  
; PRIOR APPLICATION NUMBER: JP 7-176904  
; PRIOR FILING DATE: 1995-06-21  
; PRIOR APPLICATION NUMBER: PCT/JP96/01734  
; PRIOR FILING DATE: 1996-06-21  
; NUMBER OF SEQ ID NOS: 90  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 77  
; LENGTH: 5  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Sequence of a peptide synthesized in Comparative Example 2 from Patent No. 6127339  
; OTHER INFORMATION: L-form F-moc amino acids by solid phase method using a  
; OTHER INFORMATION: multipeptide synthesizing system (Ramps)  
US-08-981-122-77

Query Match 31.8%; Score 34; DB 3; Length 5;  
Best Local Similarity 80.0%; Pred. No. 3.8e+05;  
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 12 WIDHN 16  
DB 1 WVDHN 5

RESULT 12  
US-09-142-524D-44  
; Sequence 44, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 44  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 30  
US-09-142-524D-44

Query Match 28.0%; Score 30; DB 4; Length 15;  
Best Local Similarity 50.0%; Pred. No. 1.7e+02;  
Matches 5; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1 DAITMNVVD 10  
DB 6 DALTLRTATN 15

RESULT 13  
US-08-370-567-5  
; Sequence 5, Application US/08370567  
; Patent No. 5656726  
; GENERAL INFORMATION:  
; APPLICANT: Rosenberg, Steven  
; APPLICANT: Doyle, Michael  
; APPLICANT: Goodson, Robert  
; TITLE OF INVENTION: Peptide Inhibitors of Urokinase Receptor  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94608  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/370,567  
; FILING DATE:  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/061,514  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Green, Grant D.  
; REGISTRATION NUMBER: 31,259  
; REFERENCE/DOCKET NUMBER: 0941.001  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 510-601-2706  
; TELEFAX: 510-655-3542  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
US-08-370-567-5

Query Match 28.0%; Score 30; DB 1; Length 17;  
Best Local Similarity 50.0%; Pred. NO. 2e+02; 3; Indels 0; Gaps 0;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 10 DVWIDHNSLS 19  
|:|:|  
Db 4 DLWMRHYPPLS 13

## RESULT 14

US-08-438-759-5  
; Sequence 5, Application US/08438759  
; Patent No. 5679782  
; GENERAL INFORMATION:  
; APPLICANT: Rosenberg, Steven  
; APPLICANT: Doyle, Michael  
; APPLICANT: Goodson, Robert  
; TITLE OF INVENTION: Peptide Inhibitors of Urokinase Receptor  
; TITLE OF INVENTION: Activity  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; STREET: Chiron Corporation  
; STREET: 4560 Horton Street  
; CITY: Emeryville  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94608  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/438,759  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/370,567  
; FILING DATE:  
; APPLICATION NUMBER: US/08/061,514  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Green, Grant D.  
; REGISTRATION NUMBER: 31,259  
; REFERENCE/DOCKET NUMBER: 0941.001  
; TELEPHONE: 510-601-2706  
; TELEFAX: 510-655-3542  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; HYPOTHETICAL: NO  
US-08-438-759-5

Query Match 28.0%; Score 30; DB 1; Length 17;  
Best Local Similarity 50.0%; Pred. NO. 2e+02;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 10 DVWIDHNSLS 19  
|:|:|  
Db 4 DLWMRHYPPLS 13

## RESULT 15

US-09-428-082B-198  
; Sequence 198, Application US/09428082B  
; Patent No. 6660843  
; GENERAL INFORMATION:  
; APPLICANT: FEIGE, ULRICH  
; APPLICANT: LIU, CHUAN-FA

; APPLICANT: CHEETHAM, JANET C.  
; APPLICANT: BOONE, THOMAS CHARLES  
; TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS  
; FILE REFERENCE: A-527  
; CURRENT APPLICATION NUMBER: US/09/428,082B  
; CURRENT FILING DATE: 1999-10-22  
; PRIOR APPLICATION NUMBER: 60/105,371  
; PRIOR FILING DATE: 1998-10-23  
; NUMBER OF SEQ ID NOS: 1133  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 198  
; LENGTH: 17  
; TYPE: PPT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: UKR ANTAGONIST PEPTIDE  
US-09-428-082B-198

Query Match 28.0%; Score 30; DB 4; Length 17;  
Best Local Similarity 50.0%; Pred. NO. 2e+02; 3; Indels 0; Gaps 0;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 10 DVWIDHNSLS 19  
|:|:|  
Db 4 DLWMRHYPPLS 13

Search completed: January 26, 2005, 16:08:25  
Job time : 15.6 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-21

Perfect score: 108

Sequence: 1 ASTGVTSNNHFFHHKVML 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US05\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	74	68.5	15	14	US-10-354-240-52
2	68	63.0	15	14	US-10-354-240-51
3	52	48.1	15	14	US-10-354-240-53
4	45	41.7	15	14	US-10-354-240-50
5	39	36.1	20	14	US-10-005-530-24
6	36	33.3	19	10	US-09-791-524-2
7	36	33.3	19	17	US-10-821-544-17
8	35	32.4	18	14	US-10-349-543-4
9	35	32.4	19	10	US-09-791-524-1
10	34	31.5	9	15	US-10-107-532-1259
11	34	31.5	9	15	US-10-107-532-1786
12	34	31.5	9	15	US-10-107-532-2854
13	34	31.5	9	15	US-10-107-532-4582

14	34	31.5	9	15	US-10-107-532-4644	Sequence 4644, Ap
15	34	31.5	10	15	US-10-107-532-1504	Sequence 1504, Ap
16	34	31.5	10	15	US-10-107-532-2021	Sequence 2021, Ap
17	34	31.5	10	15	US-10-107-532-2613	Sequence 2613, Ap
18	34	31.5	10	15	US-10-107-532-3084	Sequence 3084, Ap
19	34	31.5	10	15	US-10-107-532-3654	Sequence 3654, Ap
20	34	31.5	10	15	US-10-107-532-5281	Sequence 5281, Ap
21	34	31.5	10	15	US-10-107-532-5294	Sequence 5294, Ap
22	34	31.5	10	15	US-10-107-532-5490	Sequence 5490, Ap
23	34	31.5	15	15	US-10-107-532-5936	Sequence 5936, Ap
24	34	31.5	15	15	US-10-107-532-5949	Sequence 5949, Ap
25	34	31.5	15	15	US-10-107-532-6008	Sequence 6008, Ap
26	34	31.5	15	15	US-10-107-532-6009	Sequence 6009, Ap
27	34	31.5	15	15	US-10-107-532-6032	Sequence 6032, Ap
28	34	31.5	15	15	US-10-107-532-6069	Sequence 6069, Ap
29	34	31.5	15	15	US-10-107-532-6095	Sequence 6095, Ap
30	34	31.5	15	15	US-10-107-532-6102	Sequence 6102, Ap
31	34	31.5	15	15	US-10-107-532-6113	Sequence 6113, Ap
32	34	31.5	15	15	US-10-107-532-6114	Sequence 6114, Ap
33	34	31.5	20	17	US-10-476-104-16	Sequence 16, Appl
34	32	29.6	9	15	US-10-107-532-729	Sequence 729, Appl
35	32	29.6	10	14	US-10-031-874A-88	Sequence 88, Appl
36	32	29.6	10	15	US-10-107-532-394	Sequence 394, Appl
37	32	29.6	10	15	US-10-107-532-1481	Sequence 1481, Ap
38	32	29.6	10	15	US-10-107-532-2074	Sequence 2074, Ap
39	32	29.6	10	15	US-10-107-532-5339	Sequence 5339, Ap
40	32	29.6	10	15	US-10-107-532-5401	Sequence 5401, Ap
41	32	29.6	15	9	US-09-729-835-116	Sequence 116, Appl
42	32	29.6	15	15	US-10-107-532-6013	Sequence 6013, Ap
43	32	29.6	15	15	US-10-373-809-116	Sequence 116, Appl
44	31	28.7	14	15	US-10-417-895A-33	Sequence 33, Appl
45	31	28.7	15	14	US-10-120-604-210	Sequence 210, Appl

ALIGNMENTS

RESULT 1  
US-10-354-240-52  
; Sequence 52, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Kume, Toshio  
; APPLICANT: Sone, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JF97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 52  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38  
US-10-354-240-52

Query Match 68.5%; Score 74; DB 14; Length 15;  
Best Local Similarity 93.3%; Pred. No. 0.00013;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 6 TISNNHFFHHKVML 20  
||||| |||||||

Db 1 TISNNLFNNHHKVML 15

RESULT 2

US-10-354-240-51

; Sequence 51, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 51

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 37

US-10-354-240-51

Query Match 63.0%; Score 68; DB 14; Length 15;

Best Local Similarity 86.7%; Pred. No. 0.0011;

Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 ASTGVTISNNHFFNH 15

Db 1 SSTGVTISNNLFNNH 15

RESULT 3

US-10-354-240-53

; Sequence 53, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 53

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 39

US-10-354-240-53

Query Match 48.1%; Score 52; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.32;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FFNNHHKVML 20

Db 2 FFNNHHKVML 10

RESULT 4

US-10-354-240-50

; Sequence 50, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 50

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 36

US-10-354-240-50

Query Match 41.7%; Score 45; DB 14; Length 15;

Best Local Similarity 90.0%; Pred. No. 3.9;

Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASTGVTISNN 10

Db 6 SSTGVTISNN 15

RESULT 5

US-10-005-530-24

; Sequence 24, Application US/10005530

; Publication No. US20030026795A1

; GENERAL INFORMATION:

; APPLICANT: Isaac, Barbara G.

; APPLICANT: Greenplate, John T.

; APPLICANT: Purcell, John P.

; APPLICANT: Romano, Charles P.

; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR CONTROLLING INSECTS

; FILE REFERENCE: 11899.0022.DVUS01 (MOBT:022---2)

; CURRENT APPLICATION NUMBER: US/10/005,530

; CURRENT FILING DATE: 2001-10-26

; PRIOR APPLICATION NUMBER: 09/063,733

; PRIOR FILING DATE: 1998-04-21

; PRIOR APPLICATION NUMBER: 60/044,504

; PRIOR FILING DATE: 1997-04-21

; NUMBER OF SEQ ID NOS: 58

; SOFTWARE: Patent in version 3.1

; SEQ ID NO 24

; LENGTH: 20

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Peptide

US-10-005-530-24

Query Match 36.1%; Score 39; DB 14; Length 20;  
 Best Local Similarity 54.5%; Pred. No. 44;  
 Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 VTISNNHFFNH 15  
 DB 2 VVLEQNFFNH 12

RESULT 6  
 US-09-791-524-2  
 ; Sequence 2, Application US/09791524  
 ; Publication No. US20030143209A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Aventis Pharmaceuticals Products Inc.  
 ; TITLE OF INVENTION: Targeted Adenovirus Vectors For Delivery Of Heterologous Genes  
 ; FILE REFERENCE: A3319A  
 ; CURRENT APPLICATION NUMBER: US/09/791,524  
 ; CURRENT FILING DATE: 2001-02-22  
 ; PRIOR APPLICATION NUMBER: 60/09828  
 ; PRIOR FILING DATE: 1998-08-27  
 ; NUMBER OF SEQ ID NOS: 150  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 2  
 ; TYPE: PRT  
 ; ORGANISM: Adenovirus  
 US-09-791-524-2

Query Match 33.3%; Score 36; DB 10; Length 19;  
 Best Local Similarity 46.2%; Pred. No. 1.2e+02;  
 Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16  
 DB 4 GTAVSNKYFSNIH 16

RESULT 7  
 US-10-821-544-17  
 ; Sequence 17, Application US/10821544  
 ; Publication No. US20040265797A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: ROSENBERG, STEVE  
 ; APPLICANT: DOYLE, MICHAEL  
 ; APPLICANT: CHAPMAN, HAROLD  
 ; TITLE OF INVENTION: PEPTIDE LIGANDS OF THE UROKINASE RECEPTOR  
 ; FILE REFERENCE: 014024-0284102  
 ; CURRENT APPLICATION NUMBER: US/10/821,544  
 ; CURRENT FILING DATE: 2004-04-09  
 ; PRIOR APPLICATION NUMBER: US/09/155,260C  
 ; PRIOR FILING DATE: 1998-09-23  
 ; PRIOR APPLICATION NUMBER: PCT/US97/05199  
 ; PRIOR FILING DATE: 1997-03-28  
 ; PRIOR APPLICATION NUMBER: 08/623,361  
 ; PRIOR FILING DATE: 1996-03-28  
 ; NUMBER OF SEQ ID NOS: 76  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 17  
 ; LENGTH: 19  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 US-10-821-544-17

Query Match 33.3%; Score 36; DB 17; Length 19;  
 Best Local Similarity 46.2%; Pred. No. 1.2e+02;  
 Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16

Db 5 GTAVSNKYFSNLH 17

RESULT 8  
 US-10-349-543-4  
 ; Sequence 4, Application US/10349543  
 ; Publication No. US20030166514A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jones, Terence R.  
 ; Haney, David N.  
 ; Varga, Janos  
 ; TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO  
 ; UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: RADER, FISHMAN & GRAUER  
 ; STREET: 1233 20TH STREET NW, SUITE 501  
 ; CITY: WASHINGTON  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20036  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/349,543  
 ; FILING DATE: 22-Jan-2003  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/285,783  
 ; FILING DATE: 05-Apr-1999  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: LIVNAT, SHMUEL  
 ; REGISTRATION NUMBER: 33,949  
 ; REFERENCE/DOCKET NUMBER: ANG-001/DIV (80144-0007)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (202) 955-8787  
 ; TELEFAX: (202) 955-3751  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 18 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 US-10-349-543-4

Query Match 32.4%; Score 35; DB 14; Length 18;  
 Best Local Similarity 46.2%; Pred. No. 1.6e+02;  
 Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16  
 DB 1 GTCVSNKYFSNIH 13

RESULT 9  
 US-09-791-524-1  
 ; Sequence 1, Application US/09791524  
 ; Publication No. US20030143209A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Aventis Pharmaceuticals Products Inc.  
 ; TITLE OF INVENTION: Targeted Adenovirus Vectors For Delivery Of Heterologous Genes  
 ; FILE REFERENCE: A3319A  
 ; CURRENT APPLICATION NUMBER: US/09/791,524  
 ; CURRENT FILING DATE: 2001-02-22  
 ; PRIOR APPLICATION NUMBER: 60/09828  
 ; PRIOR FILING DATE: 1998-08-27  
 ; NUMBER OF SEQ ID NOS: 150  
 ; SOFTWARE: PatentIn version 3.0

```

; SEQ ID NO 1
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Adenovirus
US-09-791-524-1

Query Match      32.4%; Score 35; DB 10; Length 19;
Best Local Similarity 46.2%; Pred. No. 1.7e+02;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY      4 GVTISNNHFFNHH 16
        | : | | : | | |
Db      4 GTCVSNKYFSNIH 16

RESULT 10
US-10-107-532-1259
; Sequence 1259, Application US/10107532
; Publication No. US20040003418A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Jakobovits, Aya
; APPLICANT: Paris, Mary
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Morrison, Robert Kendall
; APPLICANT: Hubert, Rene S.
; APPLICANT: Afar, Daniel E.H.
; APPLICANT: Ge, Wangmao
; APPLICANT: Raitano, Arthur
; APPLICANT: Challita-Eid, Pia M.
; TITLE OF INVENTION: Nucleic Acid and Corresponding Protein
; FILE REFERENCE: Entitled 158P3D2 Useful in Treatment and Detection of Cancer
; CURRENT APPLICATION NUMBER: US/10/107,532
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/283,112
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/286,630
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 6321
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1259
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-107-532-1259

Query Match      31.5%; Score 34; DB 15; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.5e+06;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      10 NHFFNHHK 17
        | : | | |
Db      2 NRFYSHHR 9

RESULT 11
US-10-107-532-1786
; Sequence 1786, Application US/10107532
; Publication No. US20040003418A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Jakobovits, Aya
; APPLICANT: Paris, Mary
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Morrison, Robert Kendall
; APPLICANT: Hubert, Rene S.
; APPLICANT: Afar, Daniel E.H.
; APPLICANT: Ge, Wangmao
; APPLICANT: Raitano, Arthur
; APPLICANT: Challita-Eid, Pia M.
; TITLE OF INVENTION: Nucleic Acid and Corresponding Protein
; FILE REFERENCE: Entitled 158P3D2 Useful in Treatment and Detection of Cancer
; CURRENT APPLICATION NUMBER: US/10/107,532
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/283,112
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/286,630
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 6321
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1259
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-107-532-1259

Query Match      31.5%; Score 34; DB 15; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.5e+06;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      10 NHFFNHHK 17
        | : | | |
Db      2 NRFYSHHR 9

RESULT 12
US-10-107-532-2854
; Sequence 2854, Application US/10107532
; Publication No. US20040003418A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Jakobovits, Aya
; APPLICANT: Paris, Mary
; APPLICANT: Morrison, Karen Jane Meyrick
; APPLICANT: Morrison, Robert Kendall
; APPLICANT: Hubert, Rene S.
; APPLICANT: Afar, Daniel E.H.
; APPLICANT: Ge, Wangmao
; APPLICANT: Raitano, Arthur
; APPLICANT: Challita-Eid, Pia M.
; TITLE OF INVENTION: Nucleic Acid and Corresponding Protein
; FILE REFERENCE: Entitled 158P3D2 Useful in Treatment and Detection of Cancer
; CURRENT APPLICATION NUMBER: US/10/107,532
; PRIOR FILING DATE: 2002-08-05
; PRIOR APPLICATION NUMBER: 60/283,112
; PRIOR FILING DATE: 2001-04-10
; PRIOR APPLICATION NUMBER: 60/286,630
; PRIOR FILING DATE: 2001-04-25
; NUMBER OF SEQ ID NOS: 6321
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2854
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-107-532-2854

Query Match      31.5%; Score 34; DB 15; Length 9;
Best Local Similarity 50.0%; Pred. No. 1.5e+06;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      10 NHFFNHHK 17
        | : | | |
Db      2 NRFYSHHR 9

RESULT 13
US-10-107-532-4582
; Sequence 4582, Application US/10107532
; Publication No. US20040003418A1
; GENERAL INFORMATION:
; APPLICANT: Agensys, Inc.
; APPLICANT: Jakobovits, Aya
; APPLICANT: Paris, Mary

```



APPLICANT: Morrison, Karen Jane Meyrick  
APPLICANT: Morrison, Robert Kendall  
APPLICANT: Hubert, Rene S.  
APPLICANT: Afar, Daniel E.H.  
APPLICANT: Ge, Wangmao  
APPLICANT: Raitano, Arthur  
APPLICANT: Challita-Eid, Pia M.  
TITLE OF INVENTION: Nucleic Acid and Corresponding Protein  
FILE REFERENCE: 51158-200064.00  
CURRENT APPLICATION NUMBER: US/10/107,532  
CURRENT FILING DATE: 2002-08-05  
PRIOR APPLICATION NUMBER: 60/283,112  
PRIOR FILING DATE: 2001-04-10  
PRIOR APPLICATION NUMBER: 60/286,630  
PRIOR FILING DATE: 2001-04-25  
NUMBER OF SEQ ID NOS: 6321  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4582  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-107-532-4582

Query Match 31.5%; Score 34; DB 15; Length 9;  
Best Local Similarity 50.0%; Pred. No. 1.5e+06;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 10 NHFFNHHK 17  
| | : | : | :  
Db 1 NRFYSHHR 8

RESULT 14  
US-10-107-532-4644  
Sequence 4644, Application US/10107532  
Publication No. US20040003418A1  
GENERAL INFORMATION:  
APPLICANT: Agensys, Inc.  
APPLICANT: Jakobovits, Aya  
APPLICANT: Paris, Mary  
APPLICANT: Morrison, Karen Jane Meyrick  
APPLICANT: Morrison, Robert Kendall  
APPLICANT: Hubert, Rene S.  
APPLICANT: Afar, Daniel E.H.  
APPLICANT: Ge, Wangmao  
APPLICANT: Raitano, Arthur  
APPLICANT: Challita-Eid, Pia M.  
TITLE OF INVENTION: Nucleic Acid and Corresponding Protein  
FILE REFERENCE: 51158-200064.00  
CURRENT APPLICATION NUMBER: US/10/107,532  
CURRENT FILING DATE: 2002-08-05  
PRIOR APPLICATION NUMBER: 60/283,112  
PRIOR FILING DATE: 2001-04-10  
PRIOR APPLICATION NUMBER: 60/286,630  
PRIOR FILING DATE: 2001-04-25  
NUMBER OF SEQ ID NOS: 6321  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4644  
LENGTH: 9  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-107-532-4644

Query Match 31.5%; Score 34; DB 15; Length 9;  
Best Local Similarity 50.0%; Pred. No. 1.5e+06;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 10 NHFFNHHK 17  
| | : | : | :  
Db 1 NRFYSHHR 8

RESULT 15  
US-10-107-532-1504  
Sequence 1504, Application US/10107532  
Publication No. US20040003418A1  
GENERAL INFORMATION:  
APPLICANT: Agensys, Inc.  
APPLICANT: Jakobovits, Aya  
APPLICANT: Paris, Mary  
APPLICANT: Morrison, Karen Jane Meyrick  
APPLICANT: Morrison, Robert Kendall  
APPLICANT: Hubert, Rene S.  
APPLICANT: Afar, Daniel E.H.  
APPLICANT: Ge, Wangmao  
APPLICANT: Raitano, Arthur  
APPLICANT: Challita-Eid, Pia M.  
TITLE OF INVENTION: Nucleic Acid and Corresponding Protein  
FILE REFERENCE: 51158-200064.00  
CURRENT APPLICATION NUMBER: US/10/107,532  
CURRENT FILING DATE: 2002-08-05  
PRIOR APPLICATION NUMBER: 60/283,112  
PRIOR FILING DATE: 2001-04-10  
PRIOR APPLICATION NUMBER: 60/286,630  
PRIOR FILING DATE: 2001-04-25  
NUMBER OF SEQ ID NOS: 6321  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1504  
LENGTH: 10  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-107-532-1504

Query Match 31.5%; Score 34; DB 15; Length 10;  
Best Local Similarity 50.0%; Pred. No. 1.2e+02;  
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 10 NHFFNHHK 17  
| | : | : | :  
Db 3 NRFYSHHR 10

Search completed: January 26, 2005, 16:54:59  
Job time : 56.5 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-21

Perfect score: 108

Sequence: 1 ASTGVTISNHFNFHHKVML 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents\_AA: \*  
1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep: \*  
2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	93	86.1	20	3	US-08-467-023-44; Sequence 44, Appl
2	74	68.5	15	4	US-09-142-524D-52 Sequence 52, Appl
3	68	63.0	15	4	US-09-142-524D-51 Sequence 51, Appl
4	52	48.1	15	4	US-09-142-524D-53 Sequence 53, Appl
5	52	48.1	20	3	US-08-467-023-45 Sequence 45, Appl
6	45	41.7	15	4	US-09-142-524D-50 Sequence 50, Appl
7	44	40.7	20	3	US-08-467-023-43 Sequence 43, Appl
8	39	36.1	20	3	US-09-063-733A-24 Sequence 24, Appl
9	35	32.4	18	2	US-08-747-915-4 Sequence 4, Appl
10	35	32.4	18	3	US-08-142-590B-4 Sequence 4, Appl
11	35	32.4	18	4	US-09-285-783-4 Sequence 24, Appl
12	35	32.4	20	3	US-08-142-590B-23 Sequence 23, Appl
13	33	30.6	10	1	US-08-166-195A-26 Sequence 26, Appl
14	33	30.6	10	2	US-08-436-772-26 Sequence 26, Appl
15	33	30.6	10	2	US-08-436-883B-26 Sequence 26, Appl
16	33	29.6	15	4	US-09-257-179-116 Sequence 116, App
17	32	29.6	17	1	US-08-323-445A-18 Sequence 18, Appl
18	32	29.6	17	1	US-08-515-903A-18 Sequence 18, Appl
19	32	29.6	17	5	PCT-US95-12840-18 Sequence 18, Appl
20	32	29.6	10	2	US-08-747-915-8 Sequence 8, Appl
21	30	27.8	10	4	US-09-285-783-8 Sequence 8, Appl
22	30	27.8	10	4	US-08-981-490B-5 Sequence 5, Appl
23	30	27.8	11	1	US-07-826-928A-6 Sequence 6, Appl
24	30	27.8	11	2	US-08-747-915-3 Sequence 3, Appl
25	30	27.8	11	3	US-09-181-816-2 Sequence 2, Appl
26	30	27.8	11	4	US-09-285-783-3 Sequence 3, Appl

Sequence 6, Appli  
Sequence 1, Appli  
Sequence 60, Appl  
Sequence 5, Appli  
Sequence 20, Appl  
Sequence 10, Appl  
Sequence 15, Appl  
Sequence 40, Appl  
Sequence 30, Appl  
Sequence 103, App  
Sequence 76, Appl  
Sequence 9, Appli  
Sequence 16, Appl  
Sequence 16, Appl  
Sequence 13, Appl  
Sequence 13, Appl

ALIGNMENTS

RESULT 1  
US-08-467-023-44  
; Sequence 44, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

US-08-467-023-44

Query Match 86.1%; Score 93; DB 3; Length 20;  
Best Local Similarity 94.7%; Pred. No. 2.9e-08;  
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 STGVTISNNHFFNHHKVML 20  
| | | | | | | | | | | | | | | | | |  
Db 2 STGVTISNNLFFNHHKVML 20

## RESULT 2

US-09-142-524D-52  
; Sequence 52, Application US/09142524D  
; Patent No. 6719976

## GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103

; CURRENT APPLICATION NUMBER: US/09/142,524D

; CURRENT FILING DATE: 1998-09-09

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 52

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38

US-09-142-524D-52

Query Match 68.5%; Score 74; DB 4; Length 15;  
Best Local Similarity 93.3%; Pred. No. 2.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 6 TISNNHFFNHHKVML 20  
| | | | | | | | | | | | | | | | | |  
Db 1 TISNNLFFNHHKVML 15

## RESULT 3

US-09-142-524D-51  
; Sequence 51, Application US/09142524D  
; Patent No. 6719976

## GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103

; CURRENT APPLICATION NUMBER: US/09/142,524D

; CURRENT FILING DATE: 1998-09-09

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 51

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 37

US-09-142-524D-51

Query Match 63.0%; Score 68; DB 4; Length 15;  
Best Local Similarity 86.7%; Pred. No. 0.00018;  
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ASTGVTISNNHFFNH 15  
: | | | | | | | | | | | | | | | | | |  
Db 1 SSTGVTISNNLFFNH 15

## RESULT 4

US-09-142-524D-53  
; Sequence 53, Application US/09142524D  
; Patent No. 6719976

## GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103

; CURRENT APPLICATION NUMBER: US/09/142,524D

; CURRENT FILING DATE: 1998-09-09

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 53

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 39

US-09-142-524D-53

Query Match 48.1%; Score 52; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.062;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 FFNHHKVML 20  
| | | | | | | | | | | | | | | | | |  
Db 2 FFNHHKVML 10

## RESULT 5

US-08-467-023-45  
; Sequence 45, Application US/08467023  
; Patent No. 6090386

## GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Exley, Mark A.;

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA USA

; COUNTRY: USA

; ZIP: 02154

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 45:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-45

Query Match 48.1%; Score 52; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.085;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 FNNHKKVWL 20  
DB 2 FNNHKKVWL 10

RESULT 6  
US-09-142-524D-50  
Sequence 50, Application US/09142524D  
Patent No. 6719976  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinori  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103  
CURRENT APPLICATION NUMBER: US/09/142,524D  
PRIOR FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 50  
LENGTH: 15  
TYPE: PPT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(15)  
OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 36  
US-09-142-524D-50

Query Match 41.7%; Score 45; DB 4; Length 15;  
Best Local Similarity 90.0%; Pred. No. 0.78;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ASTGVITISNN 10  
DB 6 SSTGVITISNN 15

RESULT 7  
US-08-467-023-43  
Sequence 43, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESS: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-43

Query Match 40.7%; Score 44; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 STGVITISNN 10  
DB 12 STGVITISNN 20

RESULT 8  
US-09-063-733A-24  
Sequence 24, Application US/09063733A  
Patent No. 6372211  
GENERAL INFORMATION:  
APPLICANT: Isaac, Barbara G.  
APPLICANT: Greenplate, John T.  
APPLICANT: Purcell, John P.  
APPLICANT: Romano, Charles P.  
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR CONTROLLING  
INSECTS

```

; NUMBER OF SEQUENCES: 58
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold White & Durkee
; STREET: PO Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/063,733A
; FILING DATE: 21-APR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Patterson, Melinda L.
; REGISTRATION NUMBER: 33,062
; REFERENCE/DOCKET NUMBER: MORT:022
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-787-1400
; TELEFAX: 713-787-1440
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
; US-09-063-733A-24

Query Match 36.1%; Score 39; DB 3; Length 20;
Best Local Similarity 54.5%; Pred. No. 9.6;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 VTISNNHFFNH 15
DB 2 VVLEQNNFFNH 12

RESULT 9
US-08-747-915-4
; Sequence 4, Application US/08747915
; Patent No. 5942492
; GENERAL INFORMATION:
; APPLICANT: Jones, Terence R.
; APPLICANT: Hanev, David N.
; APPLICANT: Varga, Janos
; TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO
; TITLE OF INVENTION: UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1812
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/747,915
; FILING DATE: 12-NOV-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 32904-20001.00
; TELECOMMUNICATION INFORMATION:

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; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFORSMWSH
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-747-915-4

Query Match 32.4%; Score 35; DB 2; Length 18;
Best Local Similarity 46.2%; Pred. No. 36;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16
DB 1 GTCVSNKYFSNIH 13

RESULT 10
US-08-142-590B-4
; Sequence 4, Application US/08142590B
; Patent No. 6120765
; GENERAL INFORMATION:
; APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and
; TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/142,590B
; FILING DATE: 25-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,318
; FILING DATE: 02-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Paul L.
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: MGP-009CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-142-590B-4

Query Match 32.4%; Score 35; DB 3; Length 18;
Best Local Similarity 46.2%; Pred. No. 36;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16
DB 3 GTCVSNKYFSNIH 15

RESULT 11
US-08-142-590B-24

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; Sequence 24, Application US/08142590B
; Patent No. 6120765
; GENERAL INFORMATION:
; APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and GOETINCK,
; TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,318
; FILING DATE: 02-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Paul L.
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: MGP-009CP
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; FRAGMENT TYPE: internal
; US-08-142-590B-24

Query Match 32.4%; Score 35; DB 3; Length 18;
Best Local Similarity 46.2%; Pred. No. 36;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16
Db 2 GTCVSNKYFSNIH 14

RESULT 12
US-09-285-783-4
; Sequence 4, Application US/09285783
; Patent No. 6514710
; GENERAL INFORMATION:
; APPLICANT: Jones, Terence R.
; Hanev, David N.
; Varga, Janos
; TITLE OF INVENTION: CYCLIC PEPTIDES THAT BIND TO
; UROKINASE-TYPE PLASMINOGEN ACTIVATOR RECEPTOR
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RADER, FISHMAN & GRAUER
; STREET: 1233 20TH STREET NW, SUITE 501
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

; Sequence 24, Application US/08142590B
; Patent No. 6120765
; GENERAL INFORMATION:
; APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and GOETINCK,
; TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,318
; FILING DATE: 02-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Paul L.
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: MGP-009CP
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; FRAGMENT TYPE: internal
; US-08-142-590B-24

Query Match 32.4%; Score 35; DB 3; Length 18;
Best Local Similarity 46.2%; Pred. No. 36;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 4 GVTISNNHFFNH 16
Db 2 GTCVSNKYFSNIH 14

RESULT 13
US-08-142-590B-23
; Sequence 23, Application US/08142590B
; Patent No. 6120765
; GENERAL INFORMATION:
; APPLICANT: HIBINO, Tashihiko; TAKAHASHI, Tadahito; HORII, Izumi; and GOETINCK,
; TITLE OF INVENTION: UROKINASE PLASMINOGEN ACTIVATOR FRAGMENTS
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/142,590B
; FILING DATE: 25-OCT-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/042,318
; FILING DATE: 02-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Myers, Paul L.
; REGISTRATION NUMBER: 35,965
; REFERENCE/DOCKET NUMBER: MGP-009CP
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-142-590B-23

Query Match 32.4%; Score 35; DB 3; Length 20;
Best Local Similarity 46.2%; Pred. No. 41;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;
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QY      4  GVTISNHHFFNNH 16
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DB      4  GTCVSNKYFSNIH 16

RESULT 14
US-08-166-195A-26
; Sequence 26, Application US/08166195A
; Patent No. 5480739
; GENERAL INFORMATION:
; APPLICANT: O'Rand, Michael G.
; APPLICANT: Widgren, Esther E.
; APPLICANT: Richardson, Richard T.
; APPLICANT: Lea, Isabel
; TITLE OF INVENTION: Sperm Antigen Corresponding to a
; TITLE OF INVENTION: Sperm Zona Binding Protein Autoantigenic Epitope
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenneth D. Sibley
; STREET: P.O. Box 34009
; CITY: Charlotte
; STATE: No. 5480799th Carolina
; COUNTRY: USA
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/166,195A
; FILING DATE: 10 DEC 1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5470/73
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 919-881-3140
; TELEFAX: 919-881-3175
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-166-195A-26

Query Match 30.6%; Score 33; DB 1; Length 10;
Best Local Similarity 55.6%; Pred. No. 39;
Matches 5; Conservative 1; Mismatches 3; Indels 0; Gaps

QY      9  NNHFFNNHK 17
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DB      1  NNHAFQEH 9

RESULT 15
US-08-436-772-26
; Sequence 26, Application US/08436772
; Patent No. 5814456
; GENERAL INFORMATION:
; APPLICANT: O'Rand, Michael G.
; APPLICANT: Widgren, Esther E.
; APPLICANT: Richardson, Richard T.
; APPLICANT: Lea, Isabel
; TITLE OF INVENTION: Sperm Antigen Corresponding to a Sperm
; TITLE OF INVENTION: Zona Binding Protein Autoantigenic Epitope
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kenneth D. Sibley

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
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130.429 Million cell updates/sec

Title: US-09-202-464-22  
Perfect score: 115  
Sequence: 1 HFFNHHKVMLLGHSDIYSDD 20

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
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- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	76	66.1	15	14 US-10-354-240-53	Sequence 53, Appl
2	72	62.6	15	14 US-10-354-240-54	Sequence 54, Appl
3	52	45.2	15	14 US-10-354-240-52	Sequence 52, Appl
4	46	40.0	15	14 US-10-354-240-55	Sequence 55, Appl
5	33	28.7	18	9 US-09-864-761-34373	Sequence 34373, A
6	32	27.8	9	9 US-09-839-497A-11	Sequence 11, Appl
7	32	27.8	9	14 US-10-354-698-11	Sequence 11, Appl
8	32	27.8	12	17 US-10-775-965-75	Sequence 75, Appl
9	32	27.8	18	9 US-09-734-520-36	Sequence 36, Appl
10	32	27.8	18	13 US-10-012-034A-36	Sequence 36, Appl
11	32	27.8	20	15 US-10-420-564-6	Sequence 6, Appl
12	31	27.0	17	10 US-09-880-748-2968	Sequence 2968, Ap
13	31	27.0	17	14 US-10-293-418-2968	Sequence 2968, Ap

14	31	27.0	20	15	US-10-414-583-33	Sequence 33, Appl
15	31	27.0	20	15	US-10-609-217-1045	Sequence 1045, Ap
16	31	27.0	20	15	US-10-609-217-1046	Sequence 1046, Ap
17	31	27.0	20	15	US-10-632-388-1045	Sequence 1045, Ap
18	31	27.0	20	15	US-10-632-388-1046	Sequence 1046, Ap
19	31	27.0	20	15	US-10-651-723-1045	Sequence 1045, Ap
20	31	27.0	20	15	US-10-651-723-1046	Sequence 1046, Ap
21	31	27.0	20	15	US-10-645-761-1045	Sequence 1045, Ap
22	31	27.0	20	15	US-10-645-761-1046	Sequence 1046, Ap
23	31	27.0	20	15	US-10-666-696-1045	Sequence 1045, Ap
24	31	27.0	20	15	US-10-666-696-1046	Sequence 1046, Ap
25	31	27.0	20	15	US-10-653-048-1045	Sequence 1045, Ap
26	31	27.0	20	15	US-10-653-048-1046	Sequence 1046, Ap
27	30	26.1	10	8	US-08-981-490B-5	Sequence 5, Appl
28	30	26.1	15	14	US-10-293-086-129	Sequence 129, App
29	30	26.1	16	14	US-10-104-610-19	Sequence 19, Appl
30	30	26.1	18	16	US-10-775-640-4	Sequence 4, Appl
31	30	26.1	18	16	US-10-775-423-4	Sequence 4, Appl
32	30	26.1	19	14	US-10-226-629A-734	Sequence 734, App
33	30	26.1	20	8	US-08-775-765-3	Sequence 3, Appl
34	30	26.1	20	14	US-10-226-629A-735	Sequence 735, App
35	30	26.1	20	14	US-10-226-629A-736	Sequence 736, App
36	29	25.2	9	9	US-09-839-497A-13	Sequence 13, Appl
37	29	25.2	9	14	US-10-354-698-13	Sequence 13, Appl
38	29	25.2	13	15	US-10-467-396-17	Sequence 17, Appl
39	29	25.2	13	15	US-10-467-396-18	Sequence 18, Appl
40	29	25.2	13	15	US-10-468-370-227	Sequence 227, App
41	29	25.2	13	15	US-10-468-370-228	Sequence 228, App
42	29	25.2	13	16	US-10-468-496-221	Sequence 221, App
43	29	25.2	13	16	US-10-468-496-222	Sequence 222, App
44	29	25.2	14	14	US-10-033-741-38	Sequence 38, Appl
45	29	25.2	14	14	US-10-033-662-39	Sequence 39, Appl

ALIGNMENTS

RESULT 1  
US-10-354-240-53  
; Sequence 53, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwana, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 53  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 39  
US-10-354-240-53

Query Match 66.1%; Score 76; DB 14; Length 15;  
Best Local Similarity 92.9%; Pred No. 0.00017;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 2 FFFNHHKVMLLGHSD 15  
|||||||

Db 2 FFNHHKVMLLGHDD 15

## RESULT 2

US-10-354-240-54  
; Sequence 54, Application US/10354240  
; Publication No. US20030185847A1

## ; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 54  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40  
US-10-354-240-54

Query Match 62.6%; Score 72; DB 14; Length 15;  
Best Local Similarity 86.7%; Pred. No. 0.00065;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 6 HKVMLLGHSDIYSD 20

Db 1 HKVMLLGHDDAYSDD 15

## RESULT 3

US-10-354-240-52  
; Sequence 52, Application US/10354240  
; Publication No. US20030185847A1

## ; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 52  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38  
US-10-354-240-52

Query Match 45.2%; Score 52; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.61;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 FFNHHKVM 10

Db 7 FFNHHKVM 15

## RESULT 4

US-10-354-240-55  
; Sequence 55, Application US/10354240  
; Publication No. US20030185847A1

## ; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 55  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41  
US-10-354-240-55

Query Match 40.0%; Score 46; DB 14; Length 15;

Best Local Similarity 80.0%; Pred. No. 4.7;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 11 LGHSDIYSD 20

Db 1 LGHDDAYSDD 10

## RESULT 5

US-09-864-761-34373  
; Sequence 34373, Application US/09864761  
; Patent No. US20020048763A1

## ; GENERAL INFORMATION:

; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Asomica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-839-497A-11

Query Match      27.8%; Score 32; DB 9; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.5e+06;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0

Qy 8 VMLIGHs 14
Db 1 IMLIGHs 7

RESULT 7
US-10-354-698-11
; Sequence 11, Application US/10354698
; Publication No. US20030186416A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20030186416A1 105-97B
; CURRENT APPLICATION NUMBER: US/10/354,698
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: US/09/839,497
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-354-698-11

Query Match      27.8%; Score 32; DB 14; Length 9;
Best Local Similarity 71.4%; Pred. No. 1.5e+06;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0

Qy 8 VMLIGHs 14
Db 1 IMLIGHs 7

RESULT 8
US-10-775-965-75
; Sequence 75, Application US/10775965
; Publication No. US20040209808A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: MODULATORS OF HUMAN G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: D0286 NP
; CURRENT APPLICATION NUMBER: US/10/775,965
; CURRENT FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: U.S. 60/446,655
; PRIOR FILING DATE: 2003-02-11
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 75
; LENGTH: 12
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: peptide
US-10-775-965-75

Query Match      27.8%; Score 32; DB 17; Length 12;
Best Local Similarity 50.0%; Pred. No. 4.5e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20020107374A1 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007914.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.85
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
US-09-864-761-34373

Query Match      28.7%; Score 33; DB 9; Length 18;
Best Local Similarity 33.3%; Pred. No. 4.9e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20020107374A1 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007914.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.85
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
US-09-864-761-34373

Query Match      28.7%; Score 33; DB 9; Length 18;
Best Local Similarity 33.3%; Pred. No. 4.9e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20020107374A1 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007914.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.85
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
US-09-864-761-34373

Query Match      28.7%; Score 33; DB 9; Length 18;
Best Local Similarity 33.3%; Pred. No. 4.9e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20020107374A1 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007914.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.85
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
US-09-864-761-34373

Query Match      28.7%; Score 33; DB 9; Length 18;
Best Local Similarity 33.3%; Pred. No. 4.9e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransferase,
; FILE REFERENCE: Docket No. US20020107374A1 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007914.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.1
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.85
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
US-09-864-761-34373

Query Match      28.7%; Score 33; DB 9; Length 18;
Best Local Similarity 33.3%; Pred. No. 4.9e+02;
Matches 4; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

Qy 1 HFFNHHKVMLLG 12
Db 7 HHHHHHVITIIG 18

RESULT 6
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. US20020107374A1
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methyltransfer
```

Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 4 NHHKVMLLG 13  
| | | : | |  
DB 3 NSHKIWMPLH 12

RESULT 9  
US-09-734-520-36  
; Sequence 36, Application US/09734520  
; Patent No. US20020115173A1  
; GENERAL INFORMATION:  
; APPLICANT: Ben-Sasson, Shmuel  
; TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION OF  
; TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE  
; TITLE OF INVENTION: ACTIVITY  
; FILE REFERENCE: 1242,2003-000  
; CURRENT APPLICATION NUMBER: US/09/734,520  
; CURRENT FILING DATE: 2000-12-11  
; NUMBER OF SEQ ID NOS: 122  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 36  
; LENGTH: 18  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: IRK  
US-09-734-520-36

Query Match 27.8%; Score 32; DB 9; Length 18;  
Best Local Similarity 63.6%; Pred. No. 6.9e+02;  
Matches 7; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 FFNHHKVMLLG 12  
| | | | |  
DB 7 FTCHHVRLG 17

RESULT 10  
US-10-012-034A-36  
; Sequence 36, Application US/10012034A  
; Publication No. US20020137141A1  
; GENERAL INFORMATION:  
; APPLICANT: Ben-Sasson, Shmuel  
; TITLE OF INVENTION: SHORT PEPTIDES FROM THE A-REGION OF  
; TITLE OF INVENTION: PROTEIN KINASES WHICH SELECTIVELY MODULATE PROTEIN KINASE  
; TITLE OF INVENTION: ACTIVITY  
; FILE REFERENCE: BEN-SASSON-5A  
; CURRENT APPLICATION NUMBER: US/10/012,034A  
; CURRENT FILING DATE: 2001-12-11  
; PRIOR APPLICATION NUMBER: 09/734,520  
; PRIOR FILING DATE: 2000-12-11  
; NUMBER OF SEQ ID NOS: 133  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 36  
; LENGTH: 18  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: IRK  
; NAME/KEY: MYRISTATE  
; LOCATION: (1)...(0)  
; FEATURE:  
; NAME/KEY: AMIDATION  
; LOCATION: (0)...(18)  
US-10-012-034A-36

Query Match 27.8%; Score 32; DB 13; Length 18;  
Best Local Similarity 63.8%; Pred. No. 6.9e+02;  
Matches 7; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 FFNHHKVMLLG 12

Db 7 FTCHHVRLG 17  
| | | | |

RESULT 11  
US-10-420-564-6  
; Sequence 6, Application US/10420564  
; Publication No. US20040001819A1  
; GENERAL INFORMATION:  
; APPLICANT: Bolen, Paul L.  
; APPLICANT: Cihak, Paul, L.  
; APPLICANT: Scharpf Jr., Lewis G.  
; TITLE OF INVENTION: Recombinant Kid Pregastric Esterase and Methods for  
; TITLE OF INVENTION: Its  
; TITLE OF INVENTION: Production and Use  
; FILE REFERENCE: IFF-0009  
; CURRENT APPLICATION NUMBER: US/10/420,564  
; CURRENT FILING DATE: 2003-04-22  
; PRIOR APPLICATION NUMBER: US/10/043,665B  
; PRIOR FILING DATE: 2002-09-24  
; PRIOR APPLICATION NUMBER: US 09/186,489  
; PRIOR FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 6  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: A modified  
; OTHER INFORMATION: polyHis-enterokinase polypeptide sequence  
US-10-420-564-6

Query Match 27.8%; Score 32; DB 15; Length 20;  
Best Local Similarity 40.0%; Pred. No. 7.7e+02;  
Matches 8; Conservative 1; Mismatches 9; Indels 2; Gaps 1;

QY 1 HFFNHHKVMLLGHSDIYSD 20  
| | | | |  
DB 2 HHHHHHHHSSGHID-DDD 19

RESULT 12  
US-09-880-748-2968  
; Sequence 2968, Application US/09880748  
; Publication No. US2003005937A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523  
; CURRENT APPLICATION NUMBER: US/09/880,748  
; CURRENT FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; NUMBER OF SEQ ID NOS: 3239  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 2968  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-880-748-2968

Query Match 27.0%; Score 31; DB 10; Length 17;  
Best Local Similarity 50.0%; Pred. No. 9.1e+02;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 9 MLLGHSDIYSDD 20  
:|:|:|:|  
Db 5 ILTGYSDIYGYMD 16

RESULT 13  
US-10-293-418-2968  
; Sequence 2968, Application US/10293418  
; Publication No. US20030223996A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys  
; FILE REFERENCE: PF523P2  
; CURRENT APPLICATION NUMBER: US/10/293,418  
; CURRENT FILING DATE: 2002-11-27  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/331,469  
; PRIOR FILING DATE: 2001-11-16  
; PRIOR APPLICATION NUMBER: 60/340,817  
; PRIOR FILING DATE: 2001-12-19  
; PRIOR APPLICATION NUMBER: 09/880,748  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: 60/293,499  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: 60/277,379  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: 60/276,248  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/240,816  
; PRIOR FILING DATE: 2000-10-17  
; PRIOR APPLICATION NUMBER: 60/212,210  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 3247  
; SEQ ID NO 2968  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-293-418-2968

Query Match 27.0%; Score 31; DB 14; Length 17;  
Best Local Similarity 50.0%; Pred. No. 9.1e+02;  
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 9 MLLGHSDIYSDD 20  
:|:|:|:|  
Db 5 ILTGYSDIYGYMD 16

RESULT 14  
US-10-414-583-33  
; Sequence 33, Application US/10414583  
; Publication No. US20040005636A1  
; GENERAL INFORMATION:  
; APPLICANT: Guy, Rodney Kiplin  
; APPLICANT: Moore, Jamie Marie Rasmussen  
; APPLICANT: Geislinger, Timothy Ross  
; TITLE OF INVENTION: METHOD FOR OBTAINING THE BINDING AFFINITIES OF A PEPTIDE LIBRARY  
; FILE REFERENCE: 9811-015-999  
; CURRENT APPLICATION NUMBER: US/10/414,583  
; CURRENT FILING DATE: 2003-04-15  
; PRIOR APPLICATION NUMBER: 60/372,952  
; PRIOR FILING DATE: 2002-04-15  
; NUMBER OF SEQ ID NOS: 88  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 33  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-414-583-33

Query Match 27.0%; Score 31; DB 15; Length 20;  
Best Local Similarity 43.8%; Pred. No. 1.1e+03;

Matches 7; Conservative 3; Mismatches 2; Indels 4; Gaps 1;  
QY 4 NHHKV----MLGHSDD 15  
:|:|:|:|  
Db 2 SHQKVTLLQLLGHKN 17

RESULT 15  
US-10-609-217-1045  
; Sequence 1045, Application US/10609217  
; Publication No. US20040044188A1  
; GENERAL INFORMATION:  
; APPLICANT: FEIGE, ULRICH  
; APPLICANT: LIU, CHUAN-FA  
; APPLICANT: CHEETHAM, JANET C.  
; APPLICANT: BOONE, THOMAS CHARLES  
; TITLE OF INVENTION: MODIFIED PEPTIDES AS THERAPEUTIC AGENTS  
; FILE REFERENCE: A-527  
; CURRENT APPLICATION NUMBER: US/10/609,217  
; CURRENT FILING DATE: 2003-06-27  
; PRIOR APPLICATION NUMBER: US/09/428,082B  
; PRIOR FILING DATE: 1999-10-22  
; PRIOR APPLICATION NUMBER: 60/105,371  
; PRIOR FILING DATE: 1998-10-23  
; NUMBER OF SEQ ID NOS: 1133  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1045  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: TNF-ALPHA INHIBITOR  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(1)  
; OTHER INFORMATION: Fc domain attached at Position 1 of the N-terminus  
US-10-609-217-1045

Query Match 27.0%; Score 31; DB 15; Length 20;  
Best Local Similarity 50.0%; Pred. No. 1.1e+03;  
Matches 6; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 FFNHHKVMLLGH 13  
:|:|:|:|  
Db 7 FLPHYKNTSLGH 18

Search completed: January 26, 2005, 16:55:00  
Job time : 56.5 secs

**This Page Blank (uspto)**

GenCore version 5.1.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-22

Perfect score: 115

Sequence: 1 HFFNHHKVMLLGHSDIYSDD 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/1aa/5A COMB.pep:\*\*

2: /cgn2\_6/ptodata/1/1aa/5B COMB.pep:\*\*

3: /cgn2\_6/ptodata/1/1aa/6A COMB.pep:\*\*

4: /cgn2\_6/ptodata/1/1aa/6B COMB.pep:\*\*

5: /cgn2\_6/ptodata/1/1aa/PTUS COMB.pep:\*\*

6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	98	85.2	20	3	US-08-467-023-45
2	76	66.1	15	4	US-09-142-524D-53
3	72	62.6	15	4	US-09-142-524D-54
4	52	45.2	15	4	US-09-142-524D-52
5	52	45.2	20	3	US-08-467-023-44
6	46	40.0	15	4	US-09-142-524D-55
7	46	40.0	20	3	US-08-467-023-46
8	39	33.9	19	4	US-09-121-211-4
9	32	27.8	9	3	US-09-293-322C-11
10	32	27.8	9	4	US-09-839-497A-11
11	32	27.8	15	4	US-09-121-211-10
12	32	27.8	20	3	US-09-186-489-6
13	32	27.8	20	4	US-10-043-665B-6
14	31	27.0	20	1	US-07-678-974D-60
15	31	27.0	20	2	US-08-543-020-12
16	31	27.0	20	2	US-08-945-168-66
17	31	27.0	20	3	US-08-542-051-21
18	31	27.0	20	4	US-09-428-082B-1045
19	31	27.0	20	4	US-09-428-082B-1046
20	30.5	26.5	15	2	US-08-945-848-2
21	30	26.1	10	4	US-08-981-490B-5
22	30	26.1	11	4	US-08-030-175-13
23	30	26.1	14	3	US-08-658-639-1
24	30	26.1	14	2	US-08-944-604-1
25	30	26.1	15	1	US-08-306-546C-19
26	30	26.1	15	2	US-08-530-524A-19
27	30	26.1	15	3	US-08-729-416C-19

ALIGNMENTS

RESULT 1

US-08-467-023-45

; Sequence 45, Application US/08467023

; Patent No. 6090386

; GENERAL INFORMATION:

; APPLICANT: Griffith, Irwin J.;

; APPLICANT: Pollock, Joanne;

; APPLICANT: Bond, Julian F.;

; APPLICANT: Garman, Richard D.;

; APPLICANT: Kuo, Mei-Chang;

; APPLICANT: Yeung, Siu-mei H.;

; APPLICANT: Brauer, Andrew;

; APPLICANT: Ekley, Mark A.;

; APPLICANT: Powers, Steven P.

; TITLE OF INVENTION: Allergenic Proteins And Peptides From

; NUMBER OF SEQUENCES: 261

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.

; STREET: 610 Lincoln St

; CITY: Waltham

; STATE: MA

; COUNTRY: USA

; ZIP: 02154

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC Compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/467,023

; FILING DATE: June 6, 1995

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/350,225

; FILING DATE: December 6, 1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Jane E. Remillard

; REGISTRATION NUMBER: 38,872

; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (617) 227-7400

; TELEFAX: (617) 227-5941

; INFORMATION FOR SEQ ID NO: 45:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 20 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

; FRAGMENT TYPE: internal

Sequence 12, Appl  
Sequence 19, Appl  
Sequence 4, Appl  
Sequence 13, Appl  
Sequence 14, Appl  
Sequence 13, Appl  
Sequence 46, Appl  
Sequence 15, Appl  
Sequence 40, Appl  
Sequence 103, Appl  
Sequence 76, Appl  
Sequence 9, Appl  
Sequence 75, Appl  
Sequence 6, Appl  
Sequence 1, Appl  
Sequence 41, Appl  
Sequence 6, Appl

US-08-467-023-45

Query Match 85.2%; Score 98; DB 3; Length 20;  
Best Local Similarity 89.5%; Pred. No. 2.5e-08;  
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 FFHHKVMLLGHSDIYSDD 20  
| | | | | | | | | | | | | | | | | | | | | |  
Db 2 FFHHKVMLLGHDDAYSDD 20

RESULT 2

US-09-142-524D-53

; Sequence 53, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 53  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 39

US-09-142-524D-53

Query Match 66.1%; Score 76; DB 4; Length 15;  
Best Local Similarity 92.9%; Pred. No. 3.7e-05;  
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 FFHHKVMLLGHSD 15  
| | | | | | | | | | | | | | | | | | | | | |  
Db 2 FFHHKVMLLGHDD 15

RESULT 3

US-09-142-524D-54

; Sequence 54, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 54  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40

US-09-142-524D-54

Query Match 62.8%; Score 72; DB 4; Length 15;  
Best Local Similarity 86.7%; Pred. No. 0.00015;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 HKVMLGHSDIYSDD 20  
| | | | | | | | | | | | | | | | | | | | | |  
Db 1 HKVMLGHDDAYSDD 15

RESULT 4

US-09-142-524D-52

; Sequence 52, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 52  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 38

US-09-142-524D-52

Query Match 45.2%; Score 52; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.14; Indels 0; Gaps 0;  
Matches 9; Conservative 0; Mismatches 0;

QY 2 FFHHKVMVL 10  
| | | | | | | | | | | | | | | | | | | | | |  
Db 7 FFHHKVMVL 15

RESULT 5

US-08-467-023-44

; Sequence 44, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154



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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-44

; Query Match 45.2%; Score 52; DB 3; Length 20;
; Best Local Similarity 100.0%; Pred. No. 0.2;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 FNNHKKVWL 10
DB 12 FNNHKKVWL 20

RESULT 6
US-09-142-524D-55
; Sequence 55, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55
; LENGTH: 15
; TYPE: PPT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41
US-09-142-524D-55

; Query Match 40.0%; Score 46; DB 4; Length 15;
; Best Local Similarity 80.0%; Pred. No. 1.1;
; Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 LGHSDIYSDD 20
DB 1 LGHDDAYSDD 10
```

```

RESULT 7
US-08-467-023-46
; Sequence 46, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Giffeth, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-46

; Query Match 40.0%; Score 46; DB 3; Length 20;
; Best Local Similarity 80.0%; Pred. No. 1.5;
; Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 11 LGHSDIYSDD 20
DB 1 LGHDDAYSDD 10

RESULT 8
US-09-121-211-4
; Sequence 4, Application US/09121211
; Patent No. 6750052
; GENERAL INFORMATION:
; APPLICANT: Shinochara, Toshimichi
; APPLICANT: Shingh, Dharendra P.
; APPLICANT: Chylack, Leo T.
; TITLE OF INVENTION: Lens Epithelial Cell Derived Growth
; TITLE OF INVENTION: Factor
; FILE REFERENCE: B0801/7116
```

```

; CURRENT APPLICATION NUMBER: US/09/121.211
; CURRENT FILING DATE: 1998-07-23
; EARLIER APPLICATION NUMBER: U.S. 60/053,549
; EARLIER FILING DATE: 1997-07-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-121-211-4

Query Match      33.9%; Score 39; DB 4; Length 19;
Best Local Similarity 43.8%; Pred. No. 16;
Matches 7; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY      2 FNNHKKVMLLGHSDIY 17
DB      1 FFGTHETAFGLGPKDIF 16

RESULT 9
US-09-293-322C-11
; Sequence 11, Application US/09293322C
; Patent No. 6232110
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C
; APPLICANT: Du, Xianxing
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methylsterase,
; Patent No. 6232110
; TITLE OF INVENTION: Recombinant DNA Molecules and Methods
; FILE REFERENCE: 105-97
; CURRENT APPLICATION NUMBER: US/09/293,322C
; CURRENT FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: US 60/082,202
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-293-322C-11

Query Match      27.8%; Score 32; DB 3; Length 9;
Best Local Similarity 71.4%; Pred. No. 3.8e+05;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      8 VMLLGHs 14
DB      1 IMLIGHs 7

RESULT 10
US-09-839-497A-11
; Sequence 11, Application US/09839497A
; Patent No. 6528295
; GENERAL INFORMATION:
; APPLICANT: Pallas, David C.
; APPLICANT: Du, Xianxing
; TITLE OF INVENTION: Coding Sequence for Protein Phosphatase Methylsterase,
; Patent No. 6528295
; TITLE OF INVENTION: Recombinant DNA Molecules and Methods
; FILE REFERENCE: Docket No. 6528295 105-97A
; CURRENT APPLICATION NUMBER: US/09/839,497A
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/082,202
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: 09/293,322
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11

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; LENGTH: 9
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-839-497A-11

Query Match      27.8%; Score 32; DB 4; Length 9;
Best Local Similarity 71.4%; Pred. No. 3.8e+05;
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      8 VMLLGHs 14
DB      1 IMLIGHs 7

RESULT 11
US-09-121-211-10
; Sequence 10, Application US/09121211
; Patent No. 6750052
; GENERAL INFORMATION:
; APPLICANT: Shinohara, Toshimichi
; APPLICANT: Shingh, Dharendra P.
; TITLE OF INVENTION: Lens Epithelial Cell Derived Growth
; TITLE OF INVENTION: Factor
; FILE REFERENCE: B0801/7116
; CURRENT APPLICATION NUMBER: US/09/121,211
; CURRENT FILING DATE: 1998-07-23
; EARLIER APPLICATION NUMBER: U.S. 60/053,549
; EARLIER FILING DATE: 1997-07-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURES:
; NAME/KEY: PEPTIDE
; LOCATION: (1)...(15)
US-09-121-211-10

Query Match      27.8%; Score 32; DB 4; Length 15;
Best Local Similarity 42.9%; Pred. No. 1.4e+02;
Matches 6; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY      2 FNNHKKVMLLGHSD 15
DB      2 FFGTHETAFGLGPKD 15

RESULT 12
US-09-186-489-6
; Sequence 6, Application US/09186489
; Patent No. 6375947
; GENERAL INFORMATION:
; APPLICANT: Bolen, Paul L.
; APPLICANT: Cihak, Paul L.
; APPLICANT: Scharpf Jr., Lewis G.
; TITLE OF INVENTION: Purified Recombinant Kid Pregastric Esterase, and
; TITLE OF INVENTION: Processes for its Production and Use
; FILE REFERENCE: 5499/3
; CURRENT APPLICATION NUMBER: US/09/186,489
; CURRENT FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: A modified
; OTHER INFORMATION: polyHis-enterokinase polypeptide sequence
US-09-186-489-6

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Query Match 27.8%; Score 32; DB 3; Length 20;  
 Best Local Similarity 40.0%; Pred. No. 1.9e+02;  
 Matches 8; Conservative 1; Mismatches 9; Indels 2; Gaps 1;

QY 1 HFFNHHKVMLLGHSDIYDD 20  
 DB 2 HHHHHHHHSSGHID--DDD 19

RESULT 13  
 US-10-043-665B-6  
 ; Sequence 6, Application US/10043665B  
 ; Patent No. 6582948  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bolen, Paul L.  
 ; APPLICANT: Cihak, Paul, L.  
 ; APPLICANT: Scharpf Jr., Lewis G.  
 ; TITLE OF INVENTION: Recombinant Kid Pregastric Esterase and Methods for Its  
 ; TITLE OF INVENTION: Production and Use  
 ; FILE REFERENCE: IFF-0009  
 ; CURRENT APPLICATION NUMBER: US/10/043,665B  
 ; CURRENT FILING DATE: 2002-09-24  
 ; PRIOR APPLICATION NUMBER: US 09/186,489  
 ; PRIOR FILING DATE: 1998-11-05  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 6  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Description of Artificial Sequence: A modified  
 ; OTHER INFORMATION: polyHis-enterokinase polypeptide sequence  
 US-10-043-665B-6

Query Match 27.8%; Score 32; DB 4; Length 20;  
 Best Local Similarity 40.0%; Pred. No. 1.9e+02;  
 Matches 8; Conservative 1; Mismatches 9; Indels 2; Gaps 1;

QY 1 HFFNHHKVMLLGHSDIYDD 20  
 DB 2 HHHHHHHHSSGHID--DDD 19

RESULT 14  
 US-07-678-974D-60  
 ; Sequence 60, Application US/07678974D  
 ; Patent No. 5629146  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DILLNER, JOAKIM  
 ; APPLICANT: DILLNER, LENA  
 ; TITLE OF INVENTION: METHOD FOR DETECTION OF HUMAN PAPILLOMAVIRUS  
 ; NUMBER OF SEQUENCES: 67  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: BERMAN & AISENBERG  
 ; STREET: 1730 RHODE ISLAND AVENUE, N.W.,  
 ; CITY: WASHINGTON  
 ; STATE: D.C.  
 ; COUNTRY: U.S.A.  
 ; ZIP: 20036-3186  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/07/678,974D  
 ; FILING DATE: 25-JUN-1991  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: AISENBERG, Irwin M.  
 ; REGISTRATION NUMBER: 19,007

; REFERENCE/DOCKET NUMBER: SG19171  
 ; TELEPHONE: 202-293-1404  
 ; TELEFAX: 202-872-0493  
 ; TELEX: 440 069 AIS UI  
 ; INFORMATION FOR SEQ ID NO: 60:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 US-07-678-974D-60

Query Match 27.0%; Score 31; DB 1; Length 20;  
 Best Local Similarity 66.7%; Pred. No. 2.7e+02;  
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 12 GHSDIYDD 20  
 DB 3 GLYDIYADD 11

RESULT 15  
 US-08-543-020-12  
 ; Sequence 12, Application US/08543020  
 ; Patent No. 5854387  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Urvy, Dan W.  
 ; APPLICANT: McPherson, David T.  
 ; APPLICANT: Xu, Jie  
 ; TITLE OF INVENTION: A Simple Method for the Purification of  
 ; NUMBER OF SEQUENCES: 15  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Cooley Godward Castro Huddleson & Tatum  
 ; STREET: 5 Palo Alto Square  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: US  
 ; ZIP: 94306-2155  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/543,020  
 ; FILING DATE: 13-OCT-1995  
 ; CLASSIFICATION: 530  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Hughes, Melya J.  
 ; REGISTRATION NUMBER: 38,696  
 ; REFERENCE/DOCKET NUMBER: BERL-016/01US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415 853 5070  
 ; TELEFAX: 415 857 0663  
 ; TELEX: 380816COOLEYPA  
 ; INFORMATION FOR SEQ ID NO: 12:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 20 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; HYPOTHETICAL: NO  
 ; ANTI-SENSE: NO  
 US-08-543-020-12

Query Match 27.0%; Score 31; DB 2; Length 20;  
 Best Local Similarity 33.3%; Pred. No. 2.7e+02;  
 Matches 4; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 HFFNHHKVMLLG 12  
 DB 5 HHHHHHGIQYMG 16

us-09-202-464-22.closed.ra1

Thu Jan 27 06:05:37 2005

Search completed: January 26, 2005, 16:08:26  
Job time : 15.6 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-23  
Perfect score: 103  
Sequence: 1 LGHSDIVDDKSMKVTVAFN 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0  
Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	71	68.9	15	14 US-10-354-240-56	Sequence 56, Appl
2	69	67.0	15	14 US-10-354-240-55	Sequence 55, Appl
3	48	46.6	15	14 US-10-354-240-9	Sequence 9, Appli
4	48	46.6	15	14 US-10-354-240-57	Sequence 57, Appl
5	48	46.6	15	14 US-10-354-240-158	Sequence 158, App
6	46	44.7	15	14 US-10-354-240-54	Sequence 54, Appl
7	32.5	31.6	20	15 US-09-853-079-218	Sequence 218, App
8	32.5	31.6	20	15 US-10-294-443-218	Sequence 218, App
9	32	31.1	18	14 US-10-084-813-172	Sequence 172, App
10	32	31.1	20	14 US-10-212-679-399	Sequence 399, App
11	32	31.1	20	14 US-10-212-679-400	Sequence 400, App
12	32	31.1	20	15 US-10-079-137B-399	Sequence 399, App
13	32	31.1	20	15 US-10-079-137B-400	Sequence 400, App

14	30	29.1	14	14	US-10-033-741-38	Sequence 38, Appl
15	30	29.1	14	14	US-10-033-662-39	Sequence 39, Appl
16	30	29.1	14	14	US-10-285-394-233	Sequence 233, App
17	30	29.1	18	16	US-10-775-640-4	Sequence 4, Appli
18	30	29.1	18	16	US-10-775-423-4	Sequence 4, Appli
19	30	29.1	19	14	US-10-242-056-65	Sequence 65, Appl
20	30	29.1	19	14	US-10-262-794A-65	Sequence 65, Appl
21	30	29.1	20	17	US-10-776-013-657	Sequence 657, App
22	29	28.2	10	15	US-10-380-147-45	Sequence 45, Appl
23	29	28.2	13	15	US-10-436-715-422	Sequence 422, App
24	29	28.2	17	10	US-09-832-464-22	Sequence 22, Appl
25	29	28.2	18	9	US-09-966-955A-23	Sequence 23, Appl
26	29	28.2	18	14	US-10-092-367-5	Sequence 5, Appli
27	29	28.2	18	14	US-10-092-367-137	Sequence 137, App
28	29	28.2	18	14	US-10-092-367-153	Sequence 153, App
29	29	28.2	18	14	US-10-092-367-98	Sequence 98, Appl
30	29	28.2	18	15	US-10-351-334-342	Sequence 342, App
31	29	28.2	18	17	US-10-867-460-98	Sequence 98, App
32	29	28.2	20	14	US-10-186-681-3	Sequence 3, Appli
33	28.5	27.7	19	14	US-10-105-232-118	Sequence 118, App
34	28.5	27.7	19	14	US-10-105-232-131	Sequence 131, App
35	28.5	27.7	19	14	US-10-189-437-105	Sequence 105, App
36	28.5	27.7	19	14	US-10-189-437-118	Sequence 118, App
37	28	27.2	14	9	US-09-966-955A-35	Sequence 35, Appl
38	28	27.2	17	10	US-09-836-433-38	Sequence 38, Appl
39	28	27.2	18	14	US-10-092-367-169	Sequence 169, App
40	28	27.2	18	14	US-10-092-367-185	Sequence 185, App
41	28	27.2	20	14	US-10-212-679-401	Sequence 401, App
42	28	27.2	20	15	US-10-079-137B-401	Sequence 401, App
43	27	26.2	8	14	US-10-284-400-19	Sequence 19, Appl
44	27	26.2	8	14	US-10-284-083-13	Sequence 13, Appl
45	27	26.2	8	14	US-10-268-336-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1  
US-10-354-240-56  
; Sequence 56, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohseuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 42  
US-10-354-240-56

Query Match 68.9%; Score 71; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.00012;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 YSDDKSMKVTVAFN 20  
|||||

Db 2 YSDDKSMKVTVAFN 15

## RESULT 2

US-10-354-240-55  
; Sequence 55, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 55  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41  
US-10-354-240-55

Query Match 67.0%; Score 69; DB 14; Length 15;  
Best Local Similarity 86.7%; Pred. No. 0.00025;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LGHSDIYSDDKSMKV 15

Db 1 LGHDDAYSDDKSMKV 15

## RESULT 3

US-10-354-240-9  
; Sequence 9, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
US-10-354-240-9

Query Match 46.6%; Score 48; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.64;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 KSMKVTVAFN 20

Db 1 KSMKVTVAFN 10

## RESULT 4

US-10-354-240-57  
; Sequence 57, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 57  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43  
US-10-354-240-57

Query Match 46.6%; Score 48; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.64;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 KSMKVTVAFN 20

Db 1 KSMKVTVAFN 10

## RESULT 5

US-10-354-240-158  
; Sequence 158, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 158  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)-(15)  
; OTHER INFORMATION: Figure 7, Row a  
US-10-354-240-158

Query Match 46.6%; Score 48; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.64;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 KSMKVTVAFN 20  
||| |||||  
DB 1 KSMKVTVAFN 10

## RESULT 6

US-10-354-240-54  
; Sequence 54, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinoori  
; APPLICANT: Daijiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 54  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 40  
US-10-354-240-54

Query Match 44.7%; Score 46; DB 14; Length 15;  
Best Local Similarity 80.0%; Pred. No. 1.4;  
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 LGHSDIYSD 10  
||| |||||  
DB 6 LGHDDAYSDD 15

## RESULT 7

US-09-853-079-218  
; Sequence 218, Application US/09853079  
; Publication No. US20030109689A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Houghton, Raymond L.  
; APPLICANT: Sleath, Paul R.  
; APPLICANT: McNeill, Patricia D.  
; APPLICANT: Homer, Mary  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS  
; FILE REFERENCE: 210121.426C11  
; CURRENT APPLICATION NUMBER: US/09/853,079  
; CURRENT FILING DATE: 2001-05-09  
; NUMBER OF SEQ ID NOS: 224  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 218  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Babesia microti  
US-09-853-079-218

Query Match 31.6%; Score 32.5; DB 10; Length 20;  
Best Local Similarity 40.0%; Pred. No. 3e+02;  
Matches 8; Conservative 3; Mismatches 4; Indels 5; Gaps 1;

QY 1 LGH-----SDIYDDKSMKV 15  
||| ||| :|||  
DB 1 LGHSDMASDINDEEPSFKI 20

## RESULT 8

US-10-294-443-218  
; Sequence 218, Application US/10294443  
; Publication No. US20040023865A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Houghton, Raymond L.  
; APPLICANT: Sleath, Paul R.  
; APPLICANT: McNeill, Patricia D.  
; APPLICANT: Homer, Mary J.  
; APPLICANT: Secrist, Heather  
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS  
; FILE REFERENCE: 210121.426C12  
; CURRENT APPLICATION NUMBER: US/10/294,443  
; CURRENT FILING DATE: 2002-11-13  
; NUMBER OF SEQ ID NOS: 243  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 218  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Babesia microti  
US-10-294-443-218

Query Match 31.6%; Score 32.5; DB 15; Length 20;  
Best Local Similarity 40.0%; Pred. No. 3e+02;  
Matches 8; Conservative 3; Mismatches 4; Indels 5; Gaps 1;

QY 1 LGH-----SDIYDDKSMKV 15  
||| ||| :|||  
DB 1 LGHSDMASDINDEEPSFKI 20

## RESULT 9

US-10-084-813-172  
; Sequence 172, Application US/10084813  
; Publication No. US20030068615A1  
; GENERAL INFORMATION:  
; APPLICANT: SAXINGER, CARL  
; TITLE OF INVENTION: POLYPEPTIDES THAT BIND HIV GP120 AND RELATED NUCLEIC  
; FILE REFERENCE: 215875  
; CURRENT APPLICATION NUMBER: US/10/084,813  
; CURRENT FILING DATE: 2002-02-27  
; PRIOR APPLICATION NUMBER: PCT/US00/23505  
; PRIOR FILING DATE: 2000-08-25  
; PRIOR APPLICATION NUMBER: US 60/151,270  
; PRIOR FILING DATE: 1999-08-27  
; NUMBER OF SEQ ID NOS: 1242  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 172  
; LENGTH: 18  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: binding peptide  
US-10-084-813-172

Query Match 31.1%; Score 32; DB 14; Length 18;  
Best Local Similarity 41.2%; Pred. No. 3.2e+02;  
Matches 7; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 LGHSDIYDDKSMKVTV 17

DB 2 LGSHKQHQRKALKTTV 18  
 US-10-079-137B-399  
 ; Sequence 399, Application US/10079137B  
 ; Publication No. US20040073016A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Frudakis, Tony N.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Misher, Lynda E.  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Li, Samuel X.  
 ; APPLICANT: Deng, Ta  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.419C13  
 ; CURRENT APPLICATION NUMBER: US/10/079,137B  
 ; CURRENT FILING DATE: 2002-02-20  
 ; NUMBER OF SEQ ID NOS: 428  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 399  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-079-137B-399  
 Query Match 31.1%; Score 32; DB 15; Length 20;  
 Best Local Similarity 54.5%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
 QY 3 HSDIYDDKSM 13  
 DB 8 HYAIYNEDKLM 18  
 RESULT 13  
 US-10-079-137B-400  
 ; Sequence 400, Application US/10079137B  
 ; Publication No. US20040073016A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Frudakis, Tony N.  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Smith, John M.  
 ; APPLICANT: Misher, Lynda E.  
 ; APPLICANT: Dillon, Davin C.  
 ; APPLICANT: Retter, Marc W.  
 ; APPLICANT: Wang, Aijun  
 ; APPLICANT: Skeiky, Yasir A. W.  
 ; APPLICANT: Harlocker, Susan L.  
 ; APPLICANT: Day, Craig H.  
 ; APPLICANT: Li, Samuel X.  
 ; APPLICANT: Deng, Ta  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.419C13  
 ; CURRENT APPLICATION NUMBER: US/10/079,137B  
 ; CURRENT FILING DATE: 2002-02-20  
 ; NUMBER OF SEQ ID NOS: 428  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 400  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-079-137B-400  
 Query Match 31.1%; Score 32; DB 15; Length 20;  
 Best Local Similarity 54.5%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
 QY 3 HSDIYDDKSM 13  
 DB 8 HYAIYNEDKLM 18  
 RESULT 11  
 US-10-212-679-400  
 ; Sequence 400, Application US/10212679  
 ; Publication No. US20030125536A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fanger, Gary  
 ; APPLICANT: Hirst, Shannon Kathleen  
 ; APPLICANT: Hirst, Shannon Kathleen  
 ; APPLICANT: Foy, Teresa  
 ; APPLICANT: Houghton, Ray  
 ; APPLICANT: Persing, David  
 ; APPLICANT: Kalos, Michael  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.419C14  
 ; CURRENT APPLICATION NUMBER: US/10/212,679  
 ; CURRENT FILING DATE: 2002-08-02  
 ; NUMBER OF SEQ ID NOS: 428  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 399  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-212-679-399  
 Query Match 31.1%; Score 32; DB 14; Length 20;  
 Best Local Similarity 54.5%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
 QY 3 HSDIYDDKSM 13  
 DB 8 HYAIYNEDKLM 18  
 RESULT 11  
 US-10-212-679-400  
 ; Sequence 400, Application US/10212679  
 ; Publication No. US20030125536A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Fanger, Gary  
 ; APPLICANT: Hirst, Shannon Kathleen  
 ; APPLICANT: Hirst, Shannon Kathleen  
 ; APPLICANT: Foy, Teresa  
 ; APPLICANT: Houghton, Ray  
 ; APPLICANT: Persing, David  
 ; APPLICANT: Kalos, Michael  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; FILE REFERENCE: 210121.419C14  
 ; CURRENT APPLICATION NUMBER: US/10/212,679  
 ; CURRENT FILING DATE: 2002-08-02  
 ; NUMBER OF SEQ ID NOS: 428  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 400  
 ; LENGTH: 20  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-212-679-400  
 Query Match 31.1%; Score 32; DB 14; Length 20;  
 Best Local Similarity 54.5%; Pred. No. 3.6e+02;  
 Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;  
 QY 3 HSDIYDDKSM 13  
 DB 8 HYAIYNEDKLM 18  
 RESULT 12



```

Db      | ||:| |
3 HYAIYNEDKLM 13

RESULT 14
US-10-033-741-38
; Sequence 38, Application US/10033741
; Publication No. US20030049640A1
; GENERAL INFORMATION:
; APPLICANT: Herman, et al.
; TITLE OF INVENTION: Proteins, Genes and Their Use For Diagnosis and Treatment of Vasc
; TITLE OF INVENTION: Response
; FILE REFERENCE: 9195-079
; CURRENT APPLICATION NUMBER: US/10/033,741
; CURRENT FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 38
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-033-741-38

Query Match      29.1%; Score 30; DB 14; Length 14;
Best Local Similarity 42.9%; Pred. No. 5e+02;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1 LGHSDIYSDDKSMK 14
      ||:|:| |
Db      1 LGNINTYADDLQNK 14

RESULT 15
US-10-033-662-39
; Sequence 39, Application US/10033662
; Publication No. US20030092197A1
; GENERAL INFORMATION:
; APPLICANT: Herman, et al.
; TITLE OF INVENTION: Proteins, Genes and Their Use For Diagnosis and Treatment of Card
; TITLE OF INVENTION: Response
; FILE REFERENCE: 9195-081
; CURRENT APPLICATION NUMBER: US/10/033,662
; CURRENT FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-033-662-39

Query Match      29.1%; Score 30; DB 14; Length 14;
Best Local Similarity 42.9%; Pred. No. 5e+02;
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1 LGHSDIYSDDKSMK 14
      ||:|:| |
Db      1 LGNINTYADDLQNK 14

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Search completed: January 26, 2005, 16:55:01  
Job time : 56.5 secs

***This Page Blank (uspto)***

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-23

Perfect score: 103

Sequence: 1 LGHSDRYSDKSMKVTAFN 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep:\*\*
- 2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*\*
- 3: /cgn2\_6/prodata/1/1aa/6A\_COMB.pep:\*\*
- 4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*\*
- 5: /cgn2\_6/prodata/1/1aa/PCITUS\_COMB.pep:\*\*
- 6: /cgn2\_6/prodata/1/1aa/backfiles1.pep:\*\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	94	91.3	20	3	US-08-467-023-46
2	76	73.8	20	3	US-08-467-023-234
3	71	68.9	15	4	US-09-142-524D-56
4	69	67.0	15	4	US-09-142-524D-55
5	60	58.3	17	3	US-08-467-023-240
6	60	58.3	19	3	US-08-467-023-239
7	56	54.4	16	3	US-08-467-023-246
8	56	54.4	17	3	US-08-467-023-241
9	56	54.4	17	3	US-08-467-023-242
10	56	54.4	18	3	US-08-467-023-253
11	56	54.4	19	3	US-08-467-023-227
12	52	50.5	19	3	US-08-467-023-121
13	52	50.5	19	3	US-08-467-023-122
14	52	50.5	20	3	US-08-467-023-230
15	50	48.5	17	3	US-08-467-023-257
16	49	47.6	13	3	US-08-467-023-256
17	48	46.6	13	3	US-08-467-023-235
18	48	46.6	14	3	US-08-467-023-247
19	48	46.6	15	3	US-08-467-023-245
20	48	46.6	15	3	US-08-467-023-255
21	48	46.6	15	4	US-09-142-524D-9
22	48	46.6	15	4	US-09-142-524D-57
23	48	46.6	15	4	US-08-467-023-158
24	48	46.6	16	3	US-08-467-023-243
25	48	46.6	16	3	US-08-467-023-244
26	48	46.6	16	3	US-08-467-023-248
27	48	46.6	16	3	US-08-467-023-250

Sequence 254, App  
Sequence 251, App  
Sequence 252, App  
Sequence 126, App  
Sequence 236, App  
Sequence 47, Appl  
Sequence 54, Appl  
Sequence 45, Appl  
Sequence 249, App  
Sequence 60, Appl  
Sequence 66, Appl  
Sequence 13, Appl  
Sequence 19, Appl  
Sequence 19, Appl  
Sequence 4, Appl  
Sequence 65, Appl  
Sequence 19, Appl  
Sequence 19, Appl

ALIGNMENTS

RESULT 1

US-08-467-023-46  
; Sequence 46, Application US/08467023  
; Patent No. 6050386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 46:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

US-08-467-023-46  
Query Match 91.3%; Score 94; DB 3; Length 20;  
Best Local Similarity 90.0%; Pred. No. 2e-09;  
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 1 LGHSDIYSDDKSMKVTVAFN 20  
Db 1 LGHDDAYSDDKSMKVTVAFN 20  
|||||  
|||  
  
RESULT 2  
US-08-467-023-234  
; Sequence 234, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 234:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal  
US-08-467-023-234

Query Match 73.8%; Score 76; DB 3; Length 20;  
Best Local Similarity 93.8%; Pred. No. 2.3e-06;  
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 5 DIYSDDKSMKVTVAFN 20  
Db 2 DAYSDDKSMKVTVAFN 17  
|||||  
|||  
  
RESULT 3

US-09-142-524D-56  
; Sequence 56, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: Patent In version 3.1  
; SEQ ID NO 56  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 42  
US-09-142-524D-56  
  
Query Match 68.9%; Score 71; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.2e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 7 YSDDKSMKVTVAFN 20  
Db 2 YSDDKSMKVTVAFN 15  
|||||  
|||  
  
RESULT 4  
US-09-142-524D-55  
; Sequence 55, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: Patent In version 3.1  
; SEQ ID NO 55  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 41  
US-09-142-524D-55  
  
Query Match 67.0%; Score 69; DB 4; Length 15;  
Best Local Similarity 86.7%; Pred. No. 2.6e-05;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 1 LGHSDIYSDDKSMKV 15  
Db 1 LGHDDAYSDDKSMKV 15  
|||||  
|||  
  
RESULT 5

```

RESULT 5
US-08-467-023-240
; Sequence 240, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 240:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-240

Query Match 58.3%; Score 60; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.001;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 DDKSMKVTVAFN 20
Db 2 DDKSMKVTVAFN 13

RESULT 6
US-08-467-023-239
; Sequence 239, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 240:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-240

Query Match 58.3%; Score 60; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 0.001;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 DDKSMKVTVAFN 20
Db 2 DDKSMKVTVAFN 13

```

```

; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 239:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-239

Query Match 58.3%; Score 60; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 0.0012;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 DDKSMKVTVAFN 20
Db 2 DDKSMKVTVAFN 13

RESULT 7
US-08-467-023-246
; Sequence 246, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154

```

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION/DOCKET NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 246:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 16 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-246

Query Match 54.4%; Score 56; DB 3; Length 16;  
Best Local Similarity 91.7%; Pred. No. 0.0045;  
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 DDKSMKVTVAFN 20  
Db 4 EDKSMKVTVAFN 15  
:|||||

RESULT 8  
US-08-467-023-241  
Sequence 241, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION/DOCKET NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 241:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-241

Query Match 54.4%; Score 56; DB 3; Length 17;  
Best Local Similarity 91.7%; Pred. No. 0.0049;  
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 9 DDKSMKVTVAFN 20  
Db 2 EDKSMKVTVAFN 13  
:|||||

RESULT 9  
US-08-467-023-242  
Sequence 242, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION/DOCKET NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 242:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-242

Query Match 54.4%; Score 56; DB 3; Length 17;  
Best Local Similarity 91.7%; Pred. No. 0.0049; 0; Indels  
Matches 11; Conservative 1; Mismatches 0; Gaps 0;

QY 9 DDKSMKVTVAFN 20  
Db 2 EDKSMKVTVAFN 13

RESULT 10

US-08-467-023-253  
Sequence 253, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 253:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 18 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-253

Query Match 54.4%; Score 56; DB 3; Length 18;  
Best Local Similarity 91.7%; Pred. No. 0.0052;  
Matches 11; Conservative 1; Mismatches 0; Indels

QY 9 DDKSMKVTVAFN 20  
Db 1 DEKSMKVTVAFN 12

RESULT 11

US-08-467-023-227  
Sequence 227, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 227:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-227

Query Match 54.4%; Score 56; DB 3; Length 19;  
Best Local Similarity 91.7%; Pred. No. 0.0056;  
Matches 11; Conservative 1; Mismatches 0; Indels

QY 9 DDKSMKVTVAFN 20  
Db 1 DEKSMKVTVAFN 12

RESULT 12

US-08-467-023-121  
Sequence 121, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 121:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-121  
Query Match 50.5%; Score 52; DB 3; Length 19;  
Best Local Similarity 83.3%; Pred. No. 0.027;  
Matches 10; Conservative 1; Mismatches 1; Indels 1; Gaps 0;  
QY 9 DDKSMKVTVAFN 20  
Db 1 DEKSMKATVAFN 12  
RESULT 13  
US-08-467-023-122  
Sequence 122, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 121:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-121

ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 122:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-122  
Query Match 50.5%; Score 52; DB 3; Length 19;  
Best Local Similarity 83.3%; Pred. No. 0.027;  
Matches 10; Conservative 1; Mismatches 1; Indels 1; Gaps 0;  
QY 9 DDKSMKVTVAFN 20  
Db 1 DEKSMKVTAAFN 12  
RESULT 14  
US-08-467-023-230  
Sequence 230, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: ImmuLogic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 122:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-122



;  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 230:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal  
US-08-467-023-230

Query Match 50.5%; Score 52; DB 3; Length 20;  
Best Local Similarity 83.3%; Pred. NO. 0.028;  
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 9 DDKSMKVTVAEN 20  
Db 2 EEKSMKVTVAEN 13

RESULT 15  
US-08-467-023-257  
; Sequence 257, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 257:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 17 amino acids  
; TYPE: amino acid

;  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal  
US-08-467-023-257  
  
Query Match 48.5%; Score 50; DB 3; Length 17;  
Best Local Similarity 83.3%; Pred. NO. 0.051;  
Matches 10; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 9 DDKSMKVTVAEN 20  
Db 1 NNKSMKVTVAEN 12  
  
Search completed: January 26, 2005, 16:08:27  
Job time : 15.6 secs

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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-24

Perfect score: 103

Sequence: 1 KSMKVTVAFNQFGPNAGQRM 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PTCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US05\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
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- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	78	75.7	15	14 US-10-354-240-9	Sequence 9, Appl
2	78	75.7	15	14 US-10-354-240-57	Sequence 57, Appl
3	78	75.7	15	14 US-10-354-240-158	Sequence 158, Appl
4	76	73.8	15	14 US-10-354-240-58	Sequence 58, Appl
5	51	49.5	15	14 US-10-354-240-59	Sequence 59, Appl
6	48	46.6	15	14 US-10-354-240-56	Sequence 56, Appl
7	30	29.1	9	14 US-10-079-167-73	Sequence 73, Appl
8	30	29.1	9	16 US-10-653-624-73	Sequence 73, Appl
9	30	29.1	9	16 US-10-833-439-73	Sequence 73, Appl
10	30	29.1	9	17 US-10-833-745-73	Sequence 73, Appl
11	30	29.1	9	17 US-10-833-744-73	Sequence 73, Appl
12	30	29.1	9	17 US-10-686-943-73	Sequence 73, Appl
13	29.5	28.6	20	14 US-10-282-960-74	Sequence 74, Appl

14	29	28.2	9	16	US-10-730-454-26	Sequence 26, Appl
15	29	28.2	9	16	US-10-730-454-32	Sequence 32, Appl
16	29	28.2	10	14	US-10-022-066-448	Sequence 448, Appl
17	29	28.2	13	14	US-10-239-423-53	Sequence 53, Appl
18	29	28.2	13	15	US-10-436-715-422	Sequence 422, Appl
19	29	28.2	16	14	US-10-225-567A-1288	Sequence 1288, Appl
20	29	28.2	18	14	US-10-225-567A-1508	Sequence 1508, Appl
21	28	27.2	9	9	US-09-776-874A-8	Sequence 8, Appl
22	28	27.2	9	9	US-09-988-113-8	Sequence 8, Appl
23	28	27.2	9	14	US-10-341-582-8	Sequence 8, Appl
24	28	27.2	9	14	US-10-384-451-8	Sequence 8, Appl
25	28	27.2	9	14	US-10-384-450-8	Sequence 8, Appl
26	28	27.2	9	14	US-10-371-218A-8	Sequence 8, Appl
27	28	27.2	9	14	US-10-456-573-8	Sequence 8, Appl
28	28	27.2	9	16	US-10-785-116-8	Sequence 8, Appl
29	28	27.2	10	17	US-10-745-242A-33	Sequence 33, Appl
30	28	27.2	15	16	US-10-203-915A-34	Sequence 34, Appl
31	28	27.2	15	16	US-10-203-915A-35	Sequence 35, Appl
32	28	27.2	16	9	US-09-826-752-19	Sequence 19, Appl
33	28	27.2	18	17	US-10-729-441-37	Sequence 37, Appl
34	28	27.2	18	17	US-10-729-441-38	Sequence 38, Appl
35	28	27.2	19	8	US-08-841-636A-29	Sequence 29, Appl
36	28	27.2	19	14	US-10-300-694A-114	Sequence 114, Appl
37	28	27.2	19	15	US-10-447-839A-8	Sequence 8, Appl
38	28	27.2	19	16	US-10-782-002-29	Sequence 29, Appl
39	28	27.2	19	16	US-10-825-378-29	Sequence 29, Appl
40	27	26.2	9	15	US-10-149-138-4176	Sequence 4176, Appl
41	27	26.2	9	16	US-10-149-138-4176	Sequence 4176, Appl
42	27	26.2	9	17	US-10-332-284A-13	Sequence 13, Appl
43	27	26.2	10	15	US-10-149-138-2629	Sequence 2629, Appl
44	27	26.2	10	16	US-10-149-138-2629	Sequence 2629, Appl
45	27	26.2	11	15	US-10-149-138-2498	Sequence 2498, Appl

#### ALIGNMENTS

RESULT 1  
US-10-354-240-9  
; Sequence 9, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
US-10-354-240-9

Query Match 75.7%; Score 78; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.9e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15

Db 1 KSMKVTVAFNQFGPN 15

RESULT 2

US-10-354-240-57  
; Sequence 57, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 57  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43  
US-10-354-240-57

Query Match 75.7%; Score 78; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.9e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
DB 1 KSMKVTVAFNQFGPN 15

RESULT 3  
US-10-354-240-158  
; Sequence 158, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 158  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Figure 7, Row a  
US-10-354-240-158

Query Match 75.7%; Score 78; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 1.9e-06;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15

DB 1 KSMKVTVAFNQFGPN 15

## RESULT 4

US-10-354-240-58  
; Sequence 58, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 58  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 44  
US-10-354-240-58

Query Match 73.8%; Score 76; DB 14; Length 15;  
Best Local Similarity 93.3%; Pred. No. 4.2e-06;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TVAFNQGPNQGNORM 20  
DB 1 TVAFNQGPNQGNORM 15

RESULT 5  
US-10-354-240-59  
; Sequence 59, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 59  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 45  
US-10-354-240-59

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Query Match      49.5%; Score 51; DB 14; Length 15;
Best Local Similarity 90.0%; Pred. No. 0.089;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      11 QFGPNAGQRM 20
         ||||| ||||
Db       1 QFGPNCGQRM 10

RESULT 6
US-10-354-240-56
; Sequence 56, Application US/10354240
; Publication No. US20030185847A1
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kousuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103D1
; CURRENT APPLICATION NUMBER: US/10/354,240
; PRIOR FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: US 09/142,524
; PRIOR FILING DATE: 1998-09-09
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 56
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 42
US-10-354-240-56

Query Match      46.6%; Score 48; DB 14; Length 15;
Best Local Similarity 100.0%; Pred. No. 0.29;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 KSMKVTVAFN 10
         ||||| ||||
Db       6 KSMKVTVAFN 15

RESULT 7
US-10-079-167-73
; Sequence 73, Application US/10079167
; Publication No. US20030138454A1
; GENERAL INFORMATION:
; APPLICANT: Hill, Adrian V.S.
; APPLICANT: McShane, Helen
; APPLICANT: Gilbert, Sarah C.
; APPLICANT: Reece, William
; APPLICANT: Schneider, Joerg
; TITLE OF INVENTION: Vaccination Method
; FILE REFERENCE: 2907.1000-001
; CURRENT APPLICATION NUMBER: US/10/079,167
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: US 09/454,204
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: PCT/GB98/01681
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: GB 97 11957.2
; PRIOR FILING DATE: 1997-06-09
; PRIOR APPLICATION NUMBER: PCT/GB01/04116
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: GB 00 23203.3
; PRIOR FILING DATE: 2001-09-21
; NUMBER OF SEQ ID NOS: 99
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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
US-10-079-167-73

Query Match      29.1%; Score 30; DB 14; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.5e+06;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      5 VTVAFNQF 12
         : ||||:
Db       1 INVAFNRF 8

RESULT 8
US-10-653-624-73
; Sequence 73, Application US/10653624
; Publication No. US20040131594A1
; GENERAL INFORMATION:
; APPLICANT: McMichael, Andrew
; APPLICANT: Hill, Adrian V.S.
; APPLICANT: Gilbert, Sarah C.
; APPLICANT: Schneider, Joerg
; APPLICANT: Plebanski, Magdalena
; APPLICANT: Hanke, Tomas
; APPLICANT: Smith, Geoffrey L.
; APPLICANT: Blanchard, Tom
; TITLE OF INVENTION: Methods and Reagents for Vaccination
; FILE REFERENCE: 2907.1000-000
; CURRENT APPLICATION NUMBER: US/10/653,624
; CURRENT FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US/09/454,204A
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: PCT/GB98/01681
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: GB 97 11957.2
; PRIOR FILING DATE: 1997-06-09
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 73
; LENGTH: 9
; TYPE: PRT
; ORGANISM: Unknown
; FEATURE:
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP
US-10-653-624-73

Query Match      29.1%; Score 30; DB 16; Length 9;
Best Local Similarity 62.5%; Pred. No. 1.5e+06;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      5 VTVAFNQF 12
         : ||||:
Db       1 INVAFNRF 8

RESULT 9
US-10-833-439-73
; Sequence 73, Application US/10833439
; Publication No. US20040175365A1
; GENERAL INFORMATION:
; APPLICANT: McMichael, Andrew
; APPLICANT: Hill, Adrian V.S.
; APPLICANT: Gilbert, Sarah C.
; APPLICANT: Schneider, Joerg
; APPLICANT: Plebanski, Magdalena
; APPLICANT: Hanke, Tomas
; APPLICANT: Smith, Geoffrey L.
```

APPLICANT: Blanchard, Tom  
; TITLE OF INVENTION: Methods and Reagents for Vaccination  
; FILE REFERENCE: 2907.1000-000  
; CURRENT APPLICATION NUMBER: US/10/833,439  
; CURRENT FILING DATE: 2004-04-28  
; PRIOR APPLICATION NUMBER: US/10/686,943  
; PRIOR FILING DATE: 2003-10-16  
; PRIOR APPLICATION NUMBER: US/09/454,204  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: PCT/GB98/01681  
; PRIOR FILING DATE: 1998-06-09  
; PRIOR APPLICATION NUMBER: GB 97 11957.2  
; PRIOR FILING DATE: 1997-06-09  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 73  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP  
US-10-833-439-73

Query Match 29.1%; Score 30; DB 16; Length 9;  
Best Local Similarity 62.5%; Pred. No. 1.5e+06;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 5 VTVAQNQF 12  
: |||||:  
Db 1 INVAFNRF 8

RESULT 10  
US-10-833-745-73  
; Sequence 73, Application US/10833745  
; Publication No. US20040191272A1  
; GENERAL INFORMATION:  
; APPLICANT: McMichael, Andrew  
; APPLICANT: Hill, Adrian V.S.  
; APPLICANT: Gilbert, Sarah C.  
; APPLICANT: Schneider, Jorg  
; APPLICANT: Plebanski, Magdalena  
; APPLICANT: Hanke, Tomas  
; APPLICANT: Smith, Geoffrey L.  
; TITLE OF INVENTION: Methods and Reagents for Vaccination  
; FILE REFERENCE: 2907.1000-000  
; CURRENT APPLICATION NUMBER: US/10/833,745  
; CURRENT FILING DATE: 2004-04-28  
; PRIOR APPLICATION NUMBER: US/10/686,943  
; PRIOR FILING DATE: 2003-10-16  
; PRIOR APPLICATION NUMBER: US/09/454,204  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: PCT/GB98/01681  
; PRIOR FILING DATE: 1998-06-09  
; PRIOR APPLICATION NUMBER: GB 97 11957.2  
; PRIOR FILING DATE: 1997-06-09  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 73  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP  
US-10-833-745-73

Query Match 29.1%; Score 30; DB 17; Length 9;  
Best Local Similarity 62.5%; Pred. No. 1.5e+06;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 5 VTVAQNQF 12  
: |||||:  
Db 1 INVAFNRF 8

RESULT 11  
US-10-833-744-73  
; Sequence 73, Application US/10833744  
; Publication No. US20040197349A1  
; GENERAL INFORMATION:  
; APPLICANT: McMichael, Andrew  
; APPLICANT: Hill, Adrian V.S.  
; APPLICANT: Gilbert, Sarah C.  
; APPLICANT: Schneider, Jorg  
; APPLICANT: Plebanski, Magdalena  
; APPLICANT: Hanke, Tomas  
; APPLICANT: Smith, Geoffrey L.  
; APPLICANT: Blanchard, Tom  
; TITLE OF INVENTION: Methods and Reagents for Vaccination  
; FILE REFERENCE: 2907.1000-000  
; CURRENT APPLICATION NUMBER: US/10/833,744  
; CURRENT FILING DATE: 2004-04-08  
; PRIOR APPLICATION NUMBER: US/10/686,943  
; PRIOR FILING DATE: 2003-10-16  
; PRIOR APPLICATION NUMBER: US/09/454,204  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: PCT/GB98/01681  
; PRIOR FILING DATE: 1998-06-09  
; PRIOR APPLICATION NUMBER: GB 97 11957.2  
; PRIOR FILING DATE: 1997-06-09  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 73  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP  
US-10-833-744-73

Query Match 29.1%; Score 30; DB 17; Length 9;  
Best Local Similarity 62.5%; Pred. No. 1.5e+06;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 5 VTVAQNQF 12  
: |||||:  
Db 1 INVAFNRF 8

RESULT 12  
US-10-686-943-73  
; Sequence 73, Application US/10686943  
; Publication No. US20040213799A1  
; GENERAL INFORMATION:  
; APPLICANT: McMichael, Andrew  
; APPLICANT: Hill, Adrian V.S.  
; APPLICANT: Gilbert, Sarah C.  
; APPLICANT: Schneider, Jorg  
; APPLICANT: Plebanski, Magdalena  
; APPLICANT: Hanke, Tomas  
; APPLICANT: Smith, Geoffrey L.  
; APPLICANT: Blanchard, Tom  
; TITLE OF INVENTION: Methods and Reagents for Vaccination  
; FILE REFERENCE: 2907.1000-000  
; CURRENT APPLICATION NUMBER: US/10/686,943  
; CURRENT FILING DATE: 2003-10-16  
; PRIOR APPLICATION NUMBER: US/09/454,204  
; PRIOR FILING DATE: 1999-12-09  
; PRIOR APPLICATION NUMBER: PCT/GB98/01681  
; PRIOR FILING DATE: 1998-06-09  
; PRIOR APPLICATION NUMBER: GB 97 11957.2

; PRIOR FILING DATE: 1997-06-09  
; NUMBER OF SEQ ID NOS: 78  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 73  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Unknown  
; FEATURE:  
; OTHER INFORMATION: CTL Peptide Epitope of P. falciparum TRAP  
US-10-686-943-73

Query Match 29.1%; Score 30; DB 17; Length 9;  
Best Local Similarity 62.5%; Pred. No. 1.5e+06;  
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 5 VTVAEQF 12  
DB 1 INVAENRF 8

RESULT 13  
US-10-282-960-74  
; Sequence 74, Application US/10282960  
; Publication No. US20030143228A1  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Si-Yi  
; APPLICANT: Zhao, Yang, You  
; APPLICANT: Schroeder, Roland  
; TITLE OF INVENTION: Human Telomerase Reverse Transcriptase as a Class-II Restricted T  
; FILE REFERENCE: P02193US1  
; CURRENT APPLICATION NUMBER: US/10/282,960  
; CURRENT FILING DATE: 2002-10-29  
; PRIOR APPLICATION NUMBER: US 60/345,012  
; PRIOR FILING DATE: 2001-10-29  
; NUMBER OF SEQ ID NOS: 100  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 74  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Human  
US-10-282-960-74

Query Match 28.6%; Score 29.5; DB 14; Length 20;  
Best Local Similarity 36.8%; Pred. No. 6.5e+02;  
Matches 7; Conservative 6; Mismatches 5; Indels 1; Gaps 1;

QY 2 SMKVTVAEQFGPQGNQGM 20  
DB 3 SIRASLTENR-GFKAGNN 20

RESULT 14  
US-10-730-454-26  
; Sequence 26, Application US/10730454  
; Publication No. US20040175757A1  
; GENERAL INFORMATION:  
; APPLICANT: Olsen, Arne  
; APPLICANT: Roggen, Erwin  
; APPLICANT: Ernst, Steffen  
; TITLE OF INVENTION: Low Allergenic Protein Variants  
; FILE REFERENCE: 5676.200-US  
; CURRENT APPLICATION NUMBER: US/10/730,454  
; CURRENT FILING DATE: 2003-12-08  
; PRIOR APPLICATION NUMBER: US/09/417,608  
; PRIOR FILING DATE: 1999-10-13  
; NUMBER OF SEQ ID NOS: 101  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 26  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:

; OTHER INFORMATION: Synthetic  
US-10-730-454-26

Query Match 28.2%; Score 29; DB 16; Length 9;  
Best Local Similarity 100.0%; Pred. No. 1.5e+06;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GPNAG 17  
DB 4 GPNAG 8

RESULT 15  
US-10-730-454-32  
; Sequence 32, Application US/10730454  
; Publication No. US20040175757A1  
; GENERAL INFORMATION:  
; APPLICANT: Olsen, Arne  
; APPLICANT: Roggen, Erwin  
; APPLICANT: Ernst, Steffen  
; TITLE OF INVENTION: Low Allergenic Protein Variants  
; FILE REFERENCE: 5676.200-US  
; CURRENT APPLICATION NUMBER: US/10/730,454  
; CURRENT FILING DATE: 2003-12-08  
; PRIOR APPLICATION NUMBER: US/09/417,608  
; PRIOR FILING DATE: 1999-10-13  
; NUMBER OF SEQ ID NOS: 101  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 32  
; LENGTH: 9  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Synthetic  
US-10-730-454-32

Query Match 28.2%; Score 29; DB 16; Length 9;  
Best Local Similarity 100.0%; Pred. No. 1.5e+06;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GPNAG 17  
DB 4 GPNAG 8

Search completed: January 26, 2005, 16:55:02  
Job time : 56.5 secs

...is Page Blank (uspto)



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OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-24

Perfect score: 103

Sequence: 1 KSMKVTVAFPNQFGPNAGQRM 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA:\*
- 1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*
  - 2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*
  - 3: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*
  - 4: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*
  - 5: /cgn2\_6/ptodata/1/1aa/PTUS\_COMB.pep:\*
  - 6: /cgn2\_6/ptodata/1/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	99	96.1	20	3	US-08-467-023-47
2	78	75.7	15	4	US-09-142-524D-9
3	78	75.7	15	4	US-09-142-524D-57
4	78	75.7	15	4	US-09-142-524D-158
5	78	75.7	19	3	US-08-467-023-227
6	78	75.7	19	3	US-08-467-023-236
7	78	75.7	20	3	US-08-467-023-230
8	76	73.8	15	4	US-09-142-524D-58
9	74	71.8	19	3	US-08-467-023-121
10	74	71.8	19	3	US-08-467-023-122
11	70	68.0	17	3	US-08-467-023-126
12	69	67.0	17	3	US-08-467-023-237
13	65	63.1	13	3	US-08-467-023-235
14	65	63.1	15	3	US-08-467-023-255
15	65	63.1	15	3	US-08-467-023-256
16	65	63.1	16	3	US-08-467-023-248
17	65	63.1	16	3	US-08-467-023-250
18	65	63.1	17	3	US-08-467-023-231
19	65	63.1	18	3	US-08-467-023-252
20	65	63.1	18	3	US-08-467-023-253
21	65	63.1	19	3	US-08-467-023-239
22	65	63.1	20	3	US-08-467-023-234
23	60	58.3	16	3	US-08-467-023-249
24	57	55.3	16	3	US-08-467-023-254
25	53	51.5	14	3	US-08-467-023-247
26	53	51.5	15	3	US-08-467-023-245
27	53	51.5	16	3	US-08-467-023-243

Sequence 244, App  
Sequence 246, App  
Sequence 240, App  
Sequence 241, App  
Sequence 242, App  
Sequence 59, Appl  
Sequence 48, Appl  
Sequence 56, Appl  
Sequence 46, Appl  
Sequence 4, Appl  
Sequence 64, Appl  
Sequence 10, Appl  
Sequence 15, Appl  
Sequence 21, Appl  
Sequence 24, Appl  
Sequence 73, Appl  
Sequence 26, Appl  
Sequence 32, Appl

ALIGNMENTS

RESULT 1  
US-08-467-023-47  
; Sequence 47, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 47:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

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US-08-467-023-47
Query Match          96.1%; Score 99; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 5.4e-11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 20
    |||||
Db 1 KSMKVTVAFNQFGPN 20
    |||||

RESULT 2
US-09-142-524D-9
; Sequence 9, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
US-09-142-524D-9

Query Match          75.7%; Score 78; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
    |||||
Db 1 KSMKVTVAFNQFGPN 15
    |||||

RESULT 3
US-09-142-524D-57
; Sequence 57, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 57
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 43
US-09-142-524D-57

Query Match          75.7%; Score 78; DB 4; Length 15;

```

```

Best Local Similarity 100.0%; Pred. No. 2.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
    |||||
Db 1 KSMKVTVAFNQFGPN 15
    |||||

RESULT 4
US-09-142-524D-158
; Sequence 158, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 158
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; NAME/KEY: MISC FEATURE
; LOCATION: (1)-(15)
; OTHER INFORMATION: Figure 7, Row a
US-09-142-524D-158

Query Match          75.7%; Score 78; DB 4; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.2e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFGPN 15
    |||||
Db 1 KSMKVTVAFNQFGPN 15
    |||||

RESULT 5
US-08-467-023-227
; Sequence 227, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

```

```
/
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ INFORMATION FOR SEQ ID NO: 227:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 19 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/
/ US-08-467-023-227

Query Match 75.7%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 2.9e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
DB 3 KSMKVTVAFNQFGPN 17

RESULT 6
US-08-467-023-236
/ Sequence 236, Application US/08467023
/ Patent No. 6090386
/ GENERAL INFORMATION:
/ APPLICANT: Griffith, Irwin J.;
/ APPLICANT: Pollock, Joanne;
/ APPLICANT: Bond, Julian F.;
/ APPLICANT: Garman, Richard D.;
/ APPLICANT: Kuo, Mei-Chang;
/ APPLICANT: Yeung, Siu-mei H.;
/ APPLICANT: Brauer, Andrew;
/ APPLICANT: Exley, Mark A.;
/ APPLICANT: Powers, Steven P.
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ TITLE OF INVENTION: Japanese Cedar Pollen
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
```

```
/
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ INFORMATION FOR SEQ ID NO: 236:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 19 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/
/ US-08-467-023-236

Query Match 75.7%; Score 78; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 2.9e-07;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15
DB 3 KSMKVTVAFNQFGPN 17

RESULT 7
US-08-467-023-230
/ Sequence 230, Application US/08467023
/ Patent No. 6090386
/ GENERAL INFORMATION:
/ APPLICANT: Griffith, Irwin J.;
/ APPLICANT: Pollock, Joanne;
/ APPLICANT: Bond, Julian F.;
/ APPLICANT: Garman, Richard D.;
/ APPLICANT: Kuo, Mei-Chang;
/ APPLICANT: Yeung, Siu-mei H.;
/ APPLICANT: Brauer, Andrew;
/ APPLICANT: Exley, Mark A.;
/ APPLICANT: Powers, Steven P.
/ TITLE OF INVENTION: Allergenic Proteins And Peptides From
/ TITLE OF INVENTION: Japanese Cedar Pollen
/ NUMBER OF SEQUENCES: 261
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
/ STREET: 610 Lincoln St
/ CITY: Waltham
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02154
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/467,023
/ FILING DATE: June 6, 1995
/ CLASSIFICATION: 424
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/350,225
/ FILING DATE: December 6, 1994
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Jane E. Remillard
/ REGISTRATION NUMBER: 38,872
/ REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 227-7400
/ INFORMATION FOR SEQ ID NO: 230:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 20 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ FRAGMENT TYPE: internal
/
/ US-08-467-023-230
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us-09-202-464-24.closed.ra1

Thu Jan 27 06:05:40 2005

Query Match 75.7%; Score 78; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 3e-07;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
DB 4 KSMKVTVAFNQFGPN 18

RESULT 8

US-09-142-524D-58  
Sequence 58, Application US/09142524D  
Patent No. 6719976  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinori  
APPLICANT: Daiiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103  
CURRENT APPLICATION NUMBER: US/09/142,524D  
CURRENT FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: PCI/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 58  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(15)  
OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 44  
US-09-142-524D-58

Query Match 73.8%; Score 76; DB 4; Length 15;  
Best Local Similarity 93.3%; Pred. No. 5e-07;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TVAFNFGPNAGORM 20  
DB 1 TVAFNFGPNAGORM 15

RESULT 9

US-08-467-023-121  
Sequence 121, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 121:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-121

Query Match 71.8%; Score 74; DB 3; Length 19;  
Best Local Similarity 93.3%; Pred. No. 1.5e-06;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
DB 3 KSMKVTVAFNQFGPN 17

RESULT 10

US-08-467-023-122  
Sequence 122, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872

REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 122:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-122

Query Match 71.8%; Score 74; DB 3; Length 19;  
Best Local Similarity 93.3%; Pred. No. 1.5e-06;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
Db 3 KSMKVTAAFNQFGPN 17  
|||||

RESULT 11  
US-08-467-023-126  
; Sequence 126, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 126:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-126

Query Match 68.0%; Score 70; DB 3; Length 19;  
Best Local Similarity 86.7%; Pred. No. 7.7e-06;  
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
Db 3 KSMKATAAFNQFGPN 17  
|||||

RESULT 12  
US-08-467-023-257  
; Sequence 257, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 257:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-257

Query Match 67.0%; Score 69; DB 3; Length 17;  
Best Local Similarity 93.3%; Pred. No. 1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KSMKVTVAFNQFGPN 15  
Db 3 KSMKVTVAFNQFGPN 17  
|||||

RESULT 13  
US-08-467-023-235

```

; Sequence 235, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 235:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
; US-08-467-023-235

Query Match 63.1%; Score 65; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 3.9e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFG 13
Db 1 KSMKVTVAFNQFG 13

RESULT 14
US-08-467-023-255
; Sequence 255, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

Query Match 63.1%; Score 65; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 4.6e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 KSMKVTVAFNQFG 13
Db 2 KSMKVTVAFNQFG 14

RESULT 15
US-08-467-023-256
; Sequence 256, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 256:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 15 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
;
US-08-467-023-256

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Query Match      63.1%; Score 65; DB 3; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.6e-05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      1 KSMKVTVAFNQFG 13
         |||||
Db       2 KSMKVTVAFNQFG 14

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Search completed: January 26, 2005, 16:08:27  
Job time : 14.6 secs

**This Page Blank (uspto)**



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-25

Perfect score: 109

Sequence: 1 QFGPNAGQMPARYGLIHV 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications\_AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
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- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
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- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
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- 10: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep.\*
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- 17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	79	72.5	15	14	US-10-354-240-59
2	74	67.9	15	14	US-10-354-240-60
3	53	48.6	15	14	US-10-354-240-61
4	51	46.8	15	14	US-10-354-240-58
5	35	32.1	19	14	US-10-225-567A-1106
6	33	30.3	10	9	US-09-834-765-397
7	33	30.3	20	14	US-10-147-447-16
8	33	30.3	20	14	US-10-300-072-23
9	33	30.3	20	15	US-10-456-949-16
10	33	30.3	20	15	US-10-456-947-45
11	33	30.3	20	16	US-10-718-495-23
12	33	30.3	20	16	US-10-717-984-23
13	31	28.4	11	10	US-09-852-910-196
					Sequence 59, Appl
					Sequence 60, Appl
					Sequence 61, Appl
					Sequence 58, Appl
					Sequence 1106, Ap
					Sequence 397, App
					Sequence 16, Appl
					Sequence 23, Appl
					Sequence 16, Appl
					Sequence 45, Appl
					Sequence 23, Appl
					Sequence 196, App

14	31	28.4	11	15	US-10-411-336A-196	Sequence 196, App
15	30	27.5	15	14	US-10-354-240-59	Sequence 9, Appli
16	30	27.5	15	14	US-10-354-240-57	Sequence 57, Appl
17	30	27.5	15	14	US-10-354-240-58	Sequence 158, App
18	30	27.5	18	14	US-10-057-789-202	Sequence 202, App
19	30	27.5	18	14	US-10-212-628-202	Sequence 202, App
20	30	27.5	20	14	US-10-319-315-47	Sequence 47, Appli
21	29	26.6	9	9	US-09-776-874A-8	Sequence 8, Appli
22	29	26.6	9	9	US-09-988-113-8	Sequence 8, Appli
23	29	26.6	9	14	US-10-341-582-8	Sequence 8, Appli
24	29	26.6	9	14	US-10-384-451-8	Sequence 8, Appli
25	29	26.6	9	14	US-10-384-450-8	Sequence 8, Appli
26	29	26.6	9	14	US-10-371-218A-8	Sequence 8, Appli
27	29	26.6	9	14	US-10-456-573-8	Sequence 8, Appli
28	29	26.6	9	16	US-10-785-116-8	Sequence 8, Appli
29	29	26.6	9	16	US-10-730-454-26	Sequence 26, Appl
30	29	26.6	9	16	US-10-730-454-32	Sequence 32, Appl
31	29	26.6	10	9	US-09-996-288-199	Sequence 199, App
32	29	26.6	10	10	US-09-572-404B-20	Sequence 20, Appl
33	29	26.6	10	10	US-09-996-265-199	Sequence 199, App
34	29	26.6	10	14	US-10-022-066-448	Sequence 448, App
35	29	26.6	10	15	US-10-461-863-199	Sequence 199, App
36	29	26.6	10	17	US-10-900-230-199	Sequence 199, App
37	29	26.6	15	17	US-10-487-886-11	Sequence 11, Appl
38	29	26.6	19	9	US-09-864-761-34455	Sequence 34455, A
39	28	25.7	11	10	US-09-791-524-134	Sequence 134, App
40	28	25.7	11	14	US-10-404-679-60	Sequence 60, Appl
41	28	25.7	11	15	US-10-404-922-1	Sequence 1, Appli
42	28	25.7	12	8	US-08-424-550B-446	Sequence 446, App
43	28	25.7	13	14	US-10-373-540-29	Sequence 24, Appl
44	28	25.7	13	14	US-10-373-540-29	Sequence 29, Appl
45	28	25.7	15	14	US-10-245-871-838	Sequence 838, App

ALIGNMENTS

RESULT 1

US-10-354-240-59  
; Sequence 59, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwana, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Dise.  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 59  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 45  
US-10-354-240-59

Query Match 72.5%; Score 79; DB 14; Length 15;  
Best Local Similarity 93.3%; Pred. No. 1.1e-05;  
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQMPARY 15  
||||| |||||||

Db 1 QFGPNCQRMPPARY 15

RESULT 2

US-10-354-240-60

; Sequence 60, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 60

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 46

US-10-354-240-60

Query Match 67.9%; Score 74; DB 14; Length 15;

Best Local Similarity 92.9%; Pred. No. 7.3e-05;

Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 7 GQMPRARYGLIHV 20

Db 2 GQMPRARYGLVHV 15

RESULT 3

US-10-354-240-61

; Sequence 61, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 61

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 47

US-10-354-240-61

Query Match 48.6%; Score 53; DB 14; Length 15;

Best Local Similarity 90.0%; Pred. No. 0.17;

Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 11 PRARYGLIHV 20

Db 1 PRARYGLVHV 10

RESULT 4

US-10-354-240-58

; Sequence 58, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 58

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 44

US-10-354-240-58

Query Match 46.8%; Score 51; DB 14; Length 15;

Best Local Similarity 90.0%; Pred. No. 0.36;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 QFGPNAGQRM 10

Db 6 QFGPNCQRM 15

RESULT 5

US-10-225-567A-1106

; Sequence 1106, Application US/10225567A

; Publication No. US20030113798A1

; GENERAL INFORMATION:

; APPLICANT: LifeSpan Biosciences

; APPLICANT: Brown, Joseph P.

; APPLICANT: Burmer, Glenna C.

; APPLICANT: Roush, Christine L.

; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS

; FILE REFERENCE: 1920-4-4

; CURRENT APPLICATION NUMBER: US/10/225,567A

; CURRENT FILING DATE: 2001-12-19

; PRIOR APPLICATION NUMBER: 60/257,144

; PRIOR FILING DATE: 2000-12-19

; NUMBER OF SEQ ID NOS: 2292

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1106

; LENGTH: 19

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-225-567A-1106

Query Match 32.1%; Score 35; DB 14; Length 19;

Best Local Similarity 50.0%; Pred. No. 1.7e+02;

Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 4 PNAGQRMPEA 13  
| : : : :  
Db 8 PGSGQQLPRS 17

## RESULT 6

US-09-834-765-397  
; Sequence 397, Application US/09834765  
; Patent No. US2002005478A1  
; GENERAL INFORMATION:  
; APPLICANT: Mary Paris  
; APPLICANT: Pia M. Challita-Eid  
; APPLICANT: Arthur B. Raitano  
; APPLICANT: Steve Chappell Mitchell  
; APPLICANT: Daniel E.H. Afar  
; APPLICANT: Ava Jakobovits  
; TITLE OF INVENTION: GTP-BINDING PROTEIN USEFUL IN TREATMENT  
; FILE REFERENCE: 129.6USU1  
; CURRENT APPLICATION NUMBER: US/09/834,765  
; PRIOR FILING DATE: 2001-09-21  
; PRIOR FILING DATE: 2000-04-12  
; NUMBER OF SEQ ID NOS: 770  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 397  
; LENGTH: 10  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-834-765-397

Query Match 30.3%; Score 33; DB 9; Length 10;  
Best Local Similarity 60.0%; Pred. No. 1.9e+02;  
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GPNAGQRMPE 12  
| : : : :  
Db 1 GPGGGRWPR 10

## RESULT 7

US-10-147-447-16  
; Sequence 16, Application US/10147447  
; Publication No. US20030060410A1  
; GENERAL INFORMATION:  
; APPLICANT: Tracey, Kevin J.  
; APPLICANT: Yang, Huan  
; APPLICANT: Warren Jr., Howland Shaw  
; APPLICANT: Fink, Mitchell P.  
; TITLE OF INVENTION: Use of HMG Fragments as  
; FILE REFERENCE: 3268.1001-001  
; CURRENT APPLICATION NUMBER: US/10/147,447  
; CURRENT FILING DATE: 2002-08-16  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-147-447-16

Query Match 30.3%; Score 33; DB 14; Length 20;  
Best Local Similarity 60.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 PNAGQRMPEA 13  
| : : : :  
Db 4 PNAPKRLPSA 13

## RESULT 8

US-10-300-072-23  
; Sequence 23, Application US/10300072  
; Publication No. US20030144201A1  
; GENERAL INFORMATION:  
; APPLICANT: Kevin J. Tracey  
; APPLICANT: Huan Yang  
; APPLICANT: Howland Shaw Warren, Jr.  
; APPLICANT: Mitchell P. Fink  
; TITLE OF INVENTION: USE OF HMG FRAGMENTS AS ANTI-FLAMMATORY  
; FILE REFERENCE: 3268.1001-005  
; CURRENT APPLICATION NUMBER: US/10/300,072  
; CURRENT FILING DATE: 2002-11-20  
; PRIOR APPLICATION NUMBER: US 10/147,447  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: US 60/291,034  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 58  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 23  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-300-072-23

Query Match 30.3%; Score 33; DB 14; Length 20;  
Best Local Similarity 60.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 PNAGQRMPEA 13  
| : : : :  
Db 4 PNAPKRLPSA 13

## RESULT 9

US-10-456-949-16  
; Sequence 16, Application US/10456949  
; Publication No. US20040005316A1  
; GENERAL INFORMATION:  
; APPLICANT: Kevin J. Tracey  
; APPLICANT: Huan Yang  
; TITLE OF INVENTION: USE OF HMG FRAGMENTS AS  
; FILE REFERENCE: 3268.1001-006  
; CURRENT APPLICATION NUMBER: US/10/456,949  
; CURRENT FILING DATE: 2003-06-06  
; PRIOR APPLICATION NUMBER: 10/147,447  
; PRIOR FILING DATE: 2002-05-15  
; PRIOR APPLICATION NUMBER: 60/291,034  
; PRIOR FILING DATE: 2001-05-15  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 16  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-456-949-16

Query Match 30.3%; Score 33; DB 15; Length 20;  
Best Local Similarity 60.0%; Pred. No. 3.8e+02;  
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 PNAGQRMPEA 13  
| : : : :  
Db 4 PNAPKRLPSA 13

## RESULT 10

US-10-456-947-45  
; Sequence 45, Application US/10456947  
; Publication No. US20040053841A1

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; GENERAL INFORMATION:
; APPLICANT: Kevin J. Tracey
; APPLICANT: Huan Yang
; TITLE OF INVENTION: INHIBITORS OF THE INTERACTION BETWEEN
; TITLE OF INVENTION: HMGB POLYPEPTIDES AND TOLL-LIKE RECEPTOR 2 AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3268.1001-007
; CURRENT APPLICATION NUMBER: US/10/456,947
; CURRENT FILING DATE: 2003-06-06
; PRIOR APPLICATION NUMBER: 10/147,447
; PRIOR FILING DATE: 2002-05-15
; PRIOR APPLICATION NUMBER: 60/291,034
; PRIOR FILING DATE: 2001-05-15
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-456-947-45

Query Match      30.3%; Score 33; DB 15; Length 20;
Best Local Similarity 60.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 PNAGQRMPPRA 13
DB      4 PNAPKRLPSA 13

RESULT 11
US-10-718-495-23
; Sequence 23, Application US/10718495
; Publication No. US20040141948A1
; GENERAL INFORMATION:
; APPLICANT: O'Keefe, Theresa L.
; TITLE OF INVENTION: USE OF HMGB FRAGMENTS AS
; TITLE OF INVENTION: ANTI-INFLAMMATORY AGENTS
; FILE REFERENCE: 3259.1009-001
; CURRENT APPLICATION NUMBER: US/10/718,495
; CURRENT FILING DATE: 2003-11-12
; PRIOR APPLICATION NUMBER: 60/427,841
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-718-495-23

Query Match      30.3%; Score 33; DB 16; Length 20;
Best Local Similarity 60.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 PNAGQRMPPRA 13
DB      4 PNAPKRLPSA 13

RESULT 12
US-10-717-984-23
; Sequence 23, Application US/10717984
; Publication No. US20040156851A1
; GENERAL INFORMATION:
; APPLICANT: Newman, Walter
; TITLE OF INVENTION: HMGB1 COMBINATION THERAPIES
; FILE REFERENCE: 3258.1008-001
; CURRENT APPLICATION NUMBER: US/10/717,984
; CURRENT FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: 60/427,846
; PRIOR FILING DATE: 2002-11-20
; NUMBER OF SEQ ID NOS: 58

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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-717-984-23

Query Match      30.3%; Score 33; DB 16; Length 20;
Best Local Similarity 60.0%; Pred. No. 3.8e+02;
Matches 6; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      4 PNAGQRMPPRA 13
DB      4 PNAPKRLPSA 13

RESULT 13
US-09-852-910-196
; Sequence 196, Application US/09852910
; Publication No. US20030096297A1
; GENERAL INFORMATION:
; APPLICANT: Hamm, Heidi
; TITLE OF INVENTION: Method For Identifying Inhibitors of G Protein Coupled Receptor S
; FILE REFERENCE: 2661-101
; CURRENT APPLICATION NUMBER: US/09/852,910
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US 60/275,472
; PRIOR FILING DATE: 2001-03-14
; NUMBER OF SEQ ID NOS: 271
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 196
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(11)
; OTHER INFORMATION: Gs library peptide
US-09-852-910-196

Query Match      28.4%; Score 31; DB 10; Length 11;
Best Local Similarity 54.5%; Pred. No. 4.3e+02;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      8 QRMPPARYGLI 18
DB      1 QRMPLRQYELL 11

RESULT 14
US-10-411-336A-196
; Sequence 196, Application US/10411336A
; Publication No. US20040018558A1
; GENERAL INFORMATION:
; APPLICANT: GILCHRIST, ANNETTE
; APPLICANT: HAMM, HEIDI
; TITLE OF INVENTION: METHOD FOR IDENTIFYING MODULATORS OF G PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 2661-102
; CURRENT APPLICATION NUMBER: US/10/411,336A
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: US 09/852910
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/275472
; PRIOR FILING DATE: 2001-03-14
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 196
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

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; OTHER INFORMATION: Gs library peptide  
US-10-411-336A-196

Query Match 28.4%; Score 31; DB 15; Length 11;  
Best Local Similarity 54.5%; Pred. No. 4.3e+02;  
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 8 QRMPRARYGLI 18  
      |||||:|:  
Db 1 QRMPLRQYELL 11

## RESULT 15

US-10-354-240-9  
; Sequence 9, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 9  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
US-10-354-240-9

Query Match 27.5%; Score 30; DB 14; Length 15;  
Best Local Similarity 100.0%; Pred. No. 8.6e+02;  
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 QFGPN 5  
      |||||  
Db 11 QFGPN 15

Search completed: January 26, 2005, 16:55:03  
Job time : 56.5 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-26

Perfect score: 115

Sequence: 1 PRARYGLIHVANNYDPWSI 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*  
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11: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
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16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*  
20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	83	72.2	15	14	US-10-354-240-62
2	82	71.3	15	14	US-10-354-240-61
3	58	50.4	15	14	US-10-354-240-63
4	53	46.1	15	14	US-10-354-240-60
5	37	32.2	16	14	US-10-012-542-515
6	37	32.2	16	14	US-10-115-123-515
7	35	30.4	13	14	US-10-300-694A-69
8	33	28.7	11	15	US-10-468-543-7
9	33	28.7	11	15	US-10-468-543-25
10	33	28.7	14	17	US-10-813-638-1274
11	33	28.7	19	9	US-09-864-761-34455
12	33	28.7	20	14	US-10-269-695-89
13	33	28.7	20	14	US-10-410-998-89

14	32	27.8	17	14	US-10-100-608B-5	Sequence 5, Appli
15	32	27.8	17	14	US-10-100-608B-8	Sequence 8, Appli
16	32	27.8	17	16	US-10-099-791E-5	Sequence 5, Appli
17	32	27.8	17	16	US-10-099-791E-8	Sequence 8, Appli
18	32	27.8	19	17	US-10-474-213-12	Sequence 12, Appli
19	31	27.0	12	16	US-10-652-407-44	Sequence 44, Appli
20	30	26.1	8	13	US-10-114-176-23	Sequence 23, Appli
21	30	26.1	8	14	US-10-323-013-23	Sequence 23, Appli
22	30	26.1	9	13	US-10-114-176-29	Sequence 29, Appli
23	30	26.1	9	14	US-10-169-351-14	Sequence 14, Appli
24	30	26.1	9	14	US-10-323-013-29	Sequence 29, Appli
25	30	26.1	9	15	US-10-447-257-16	Sequence 16, Appli
26	30	26.1	14	10	US-09-966-782A-48	Sequence 48, Appli
27	30	26.1	14	14	US-10-254-905-48	Sequence 48, Appli
28	30	26.1	16	10	US-09-972-656-4	Sequence 4, Appli
29	30	26.1	16	17	US-10-657-006-4	Sequence 4, Appli
30	30	26.1	20	14	US-10-269-695-81	Sequence 81, Appli
31	30	26.1	20	14	US-10-269-695-112	Sequence 112, App
32	30	26.1	20	14	US-10-410-998-81	Sequence 81, Appli
33	30	26.1	20	14	US-10-410-998-112	Sequence 112, App
34	29.5	25.7	20	14	US-10-243-740-3	Sequence 3, Appli
35	29.5	25.7	20	14	US-10-243-740-6	Sequence 6, Appli
36	29	25.2	7	17	US-10-347-145B-102	Sequence 102, App
37	29	25.2	7	17	US-10-347-145B-138	Sequence 138, App
38	29	25.2	9	13	US-10-114-176-31	Sequence 31, Appli
39	29	25.2	9	14	US-10-032-221B-57	Sequence 57, Appli
40	29	25.2	9	14	US-10-323-013-31	Sequence 31, Appli
41	29	25.2	10	9	US-09-848-967-13	Sequence 13, Appli
42	29	25.2	11	13	US-10-114-176-32	Sequence 32, Appli
43	29	25.2	11	14	US-10-013-815-49	Sequence 49, Appli
44	29	25.2	11	14	US-10-323-013-32	Sequence 32, Appli
45	29	25.2	12	14	US-10-075-869-76	Sequence 76, Appli

ALIGNMENTS

RESULT 1  
US-10-354-240-62  
; Sequence 62, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Kume, Toshio  
; APPLICANT: Sone, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwana, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 62  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 48  
US-10-354-240-62

Query Match 72.2%; Score 83; DB 14; Length 15;  
Best Local Similarity 86.7%; Pred. No. 1.2e-05;  
Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 6 GLIHVANNYDPWSI 20  
|||||

Db 1 GLVHVANNYDPWTI 15

RESULT 2

US-10-354-240-61  
; Sequence 61, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 61  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 47  
US-10-354-240-61

Query Match 71.3%; Score 82; DB 14; Length 15;  
Best Local Similarity 93.3%; Pred. No. 1.7e-05;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLHVANNY 15  
Db 1 PRARYGLHVANNY 15

RESULT 3

US-10-354-240-63  
; Sequence 63, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 63  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 49  
US-10-354-240-63

Query Match 50.4%; Score 58; DB 14; Length 15;

Best Local Similarity 90.0%; Pred. No. 0.075;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 11 ANNNYDPWSI 20  
Db 1 ANNNYDPWTI 10

RESULT 4

US-10-354-240-60  
; Sequence 60, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 60  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 46  
US-10-354-240-60

Query Match 46.1%; Score 53; DB 14; Length 15;  
Best Local Similarity 90.0%; Pred. No. 0.43;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHV 10  
Db 6 PRARYGLVHV 15

RESULT 5

US-10-012-542-515  
; Sequence 515, Application US/10012542  
; Publication No. US20030044851A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029P1  
; CURRENT APPLICATION NUMBER: US/10/012,542  
; CURRENT FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/461,325  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-12-14  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,507  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,508  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,509  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,510  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/090,112  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-22  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/090,113  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: PatentIn Ver. 2.0



; SEQ ID NO 515  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-012-542-515

Query Match 32.2%; Score 37; DB 14; Length 16;  
Best Local Similarity 55.6%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 11 ANNNYDPWS 19  
Db 5 SGNLDPWA 13

## RESULT 6

US-10-115-123-515  
; Sequence 515, Application US/10115123  
; Publication No. US20030065151A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029G30AP1D2  
; CURRENT APPLICATION NUMBER: US/10/115,123  
; PRIOR FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: PCT/US99/13418  
; PRIOR FILING DATE: 1999-06-15  
; PRIOR APPLICATION NUMBER: 60/089,507  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,508  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,509  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,510  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/090,112  
; PRIOR FILING DATE: 1998-06-22  
; PRIOR APPLICATION NUMBER: 60/090,113  
; PRIOR FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 515  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-115-123-515

Query Match 32.2%; Score 37; DB 14; Length 16;  
Best Local Similarity 55.6%; Pred. No. 1.3e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 11 ANNNYDPWS 19  
Db 5 SGNLDPWA 13

## RESULT 7

US-10-300-694A-69  
; Sequence 69, Application US/10300694A  
; Publication No. US20030185870A1  
; GENERAL INFORMATION:  
; APPLICANT: Duke University  
; APPLICANT: Grinstaff, Mark W.  
; APPLICANT: Kenan, Daniel J.  
; APPLICANT: Walsh, Elisabeth B.  
; APPLICANT: Middleton, Crystan  
; TITLE OF INVENTION: INTERFACIAL BIOMATERIALS  
; FILE REFERENCE: 180/143/2  
; CURRENT APPLICATION NUMBER: US/10/300,694A  
; CURRENT FILING DATE: 2003-05-07  
; PRIOR APPLICATION NUMBER: US 60/331,843  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 117

; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 69  
; LENGTH: 13  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Polycarbonate-binding peptide 69  
US-10-300-694A-69

Query Match 30.4%; Score 35; DB 14; Length 13;  
Best Local Similarity 71.4%; Pred. No. 2.1e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 12 NNNYDPW 18  
Db 3 NVNYPW 9

## RESULT 8

US-10-468-543-7  
; Sequence 7, Application US/10468543  
; Publication No. US20040091938A1  
; GENERAL INFORMATION:  
; APPLICANT: Irimura, Tatsuro  
; APPLICANT: Matsumoto, Mariko  
; APPLICANT: Yim, Mijung  
; APPLICANT: Ono, Takashi  
; TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same  
; FILE REFERENCE: 03-786  
; CURRENT APPLICATION NUMBER: US/10/468,543  
; CURRENT FILING DATE: 2003-08-20  
; PRIOR APPLICATION NUMBER: JP 2001-044221  
; PRIOR FILING DATE: 2001-02-20  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Maackia amurensis  
US-10-468-543-7

Query Match 28.7%; Score 33; DB 15; Length 11;  
Best Local Similarity 66.7%; Pred. No. 3.5e+02;  
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 13 NNNYDPW 18  
Db 6 HSYDPW 11

## RESULT 9

US-10-468-543-25  
; Sequence 25, Application US/10468543  
; Publication No. US20040091938A1  
; GENERAL INFORMATION:  
; APPLICANT: Irimura, Tatsuro  
; APPLICANT: Matsumoto, Mariko  
; APPLICANT: Yim, Mijung  
; APPLICANT: Ono, Takashi  
; TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same  
; FILE REFERENCE: 03-786  
; CURRENT APPLICATION NUMBER: US/10/468,543  
; CURRENT FILING DATE: 2003-08-20  
; PRIOR APPLICATION NUMBER: JP 2001-044221  
; PRIOR FILING DATE: 2001-02-20  
; NUMBER OF SEQ ID NOS: 95  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 25  
; LENGTH: 11  
; TYPE: PRT  
; ORGANISM: Maackia amurensis  
US-10-468-543-25

Query Match 28.7%; Score 33; DB 15; Length 11;  
Best Local Similarity 66.7%; Pred. No. 3.5e+02;  
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 13 NNYDPW 18  
Db 6 HSYDPW 11

RESULT 10  
US-10-813-638-1274  
; Sequence 1274, Application US/10813638  
; Publication No. US20040235026A1  
; GENERAL INFORMATION:  
; APPLICANT: Shimkets, Richard A.  
; APPLICANT: Leach, Martin D.  
; TITLE OF INVENTION: NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND ME  
; TITLE OF INVENTION: USE THEREOF  
; FILE REFERENCE: 15966-599  
; CURRENT APPLICATION NUMBER: US/10/813,638  
; CURRENT FILING DATE: 2004-03-29  
; PRIOR APPLICATION NUMBER: 60/163,783  
; PRIOR FILING DATE: 1999-11-24  
; NUMBER OF SEQ ID NOS: 1468  
; SOFTWARE: CuraGen Patent Formatter Version 0.9  
; SEQ ID NO 1274  
; LENGTH: 14  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (7)...(0)  
; OTHER INFORMATION: cSNP translation  
US-10-813-638-1274

Query Match 28.7%; Score 33; DB 17; Length 14;  
Best Local Similarity 57.1%; Pred. No. 4.5e+02;  
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 14 NYDPWSI 20  
Db 6 SYNPSWL 12

RESULT 11  
US-09-864-761-34455  
; Sequence 34455, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY  
; FILE REFERENCE: Aeomica-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 34455  
; LENGTH: 19  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC007275.3  
; OTHER INFORMATION: EXPRESSED IN HELI00, SIGNAL = 3.8  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 5  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.3  
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4  
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.6  
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 3.7  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.2  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 21  
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 5.2  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.5  
US-09-864-761-34455

Query Match 28.7%; Score 33; DB 9; Length 19;  
Best Local Similarity 40.0%; Pred. No. 6.1e+02;  
Matches 4; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 2 RARYGLIHVA 11  
Db 3 KRYGILHIA 12

RESULT 12  
US-10-269-695-89  
; Sequence 89, Application US/10269695  
; Publication No. US20030229023A1  
; GENERAL INFORMATION:  
; APPLICANT: OLINER, JONATHAN DANIEL  
; APPLICANT: MIN, HOSUNG  
; TITLE OF INVENTION: SPECIFIC BINDING AGENTS OF HUMAN ANGIOPOIETIN-2  
; FILE REFERENCE: A-801A  
; CURRENT APPLICATION NUMBER: US/10/269,695  
; CURRENT FILING DATE: 2002-10-10  
; PRIOR APPLICATION NUMBER: US 60/414,155  
; PRIOR FILING DATE: 2002-09-27  
; PRIOR APPLICATION NUMBER: US 60/328,624  
; PRIOR FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 359  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 89  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Polypeptide capable of binding to Ang-2

US-10-269-695-89

Query Match 28.7%; Score 33; DB 14; Length 20;  
Best Local Similarity 66.7%; Pred. No. 6.4e+02;  
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 14 NYDPWS 19  
:||||:  
Db 8 NWDPWT 13

RESULT 13

US-10-410-998-89  
; Sequence 89, Application US/10410998  
; Publication No. US20030236193A1  
; GENERAL INFORMATION:  
; APPLICANT: OLINER, JONATHAN DANIEL  
; APPLICANT: MIN, HOSUNG  
; TITLE OF INVENTION: SPECIFIC BINDING AGENTS OF HUMAN ANGIOPOIETIN-2  
; FILE REFERENCE: A-801A  
; CURRENT APPLICATION NUMBER: US/10/410,998  
; CURRENT FILING DATE: 2003-04-09  
; PRIOR APPLICATION NUMBER: US/10/269,695  
; PRIOR FILING DATE: 2002-10-10  
; PRIOR APPLICATION NUMBER: US 60/414,155  
; PRIOR FILING DATE: 2002-09-27  
; PRIOR APPLICATION NUMBER: US 60/328,624  
; PRIOR FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 359  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 89  
; LENGTH: 20  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Polypeptide capable of binding to Ang-2  
US-10-410-998-89

Query Match 28.7%; Score 33; DB 14; Length 20;  
Best Local Similarity 66.7%; Pred. No. 6.4e+02;  
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 14 NYDPWS 19  
:||||:  
Db 8 NWDPWT 13

RESULT 14

US-10-100-608B-5  
; Sequence 5, Application US/10100608B  
; Publication No. US20030104412A1  
; GENERAL INFORMATION:  
; APPLICANT: Heiskala, Marja  
; TITLE OF INVENTION: REG-LIKE PROTEIN  
; FILE REFERENCE: CDS-261  
; CURRENT APPLICATION NUMBER: US/10/100,608B  
; CURRENT FILING DATE: 2002-09-10  
; PRIOR APPLICATION NUMBER: 60/276,414  
; PRIOR FILING DATE: 2002-03-16  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Human  
US-10-100-608B-5

Query Match 27.8%; Score 32; DB 14; Length 17;  
Best Local Similarity 55.6%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 11 ANNNYDPWS 19  
:||||: ||

Db 6 SNNFLTWS 14

RESULT 15

US-10-100-608B-8  
; Sequence 8, Application US/10100608B  
; Publication No. US20030104412A1  
; GENERAL INFORMATION:  
; APPLICANT: Heiskala, Marja  
; TITLE OF INVENTION: REG-LIKE PROTEIN  
; FILE REFERENCE: CDS-261  
; CURRENT APPLICATION NUMBER: US/10/100,608B  
; CURRENT FILING DATE: 2002-09-10  
; PRIOR APPLICATION NUMBER: 60/276,414  
; PRIOR FILING DATE: 2002-03-16  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 8  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Human  
US-10-100-608B-8

Query Match 27.8%; Score 32; DB 14; Length 17;  
Best Local Similarity 55.6%; Pred. No. 7.7e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 11 ANNNYDPWS 19  
:||||: ||  
Db 6 SNNFLTWS 14

Search completed: January 26, 2005, 16:55:04  
Job time : 56.5 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-26

Perfect score: 115

Sequence: 1 PRARYGLIHVANNYDPWSI 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*

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2: /cgn2.6/ptodata/1/1aa/5B\_COMB.pep:\*

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4: /cgn2.6/ptodata/1/1aa/6B\_COMB.pep:\*

5: /cgn2.6/ptodata/1/1aa/PCTUS\_COMB.pep:\*

6: /cgn2.6/ptodata/1/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	111	96.5	20	3	US-08-467-023-49 Sequence 49, Appl
2	104	90.4	19	3	US-08-467-023-258 Sequence 258, Appl
3	83	72.2	15	4	US-09-142-524D-62 Sequence 62, Appl
4	82	71.3	15	4	US-09-142-524D-61 Sequence 61, Appl
5	58	50.4	15	4	US-09-142-524D-63 Sequence 63, Appl
6	58	50.4	20	3	US-08-467-023-50 Sequence 50, Appl
7	53	46.1	15	4	US-09-142-524D-60 Sequence 60, Appl
8	53	46.1	20	3	US-08-467-023-48 Sequence 48, Appl
9	50	43.5	17	1	US-08-290-448A-55 Sequence 55, Appl
10	50	43.5	17	1	US-08-290-448A-55 Sequence 55, Appl
11	50	43.5	17	1	US-08-175-069A-55 Sequence 55, Appl
12	50	43.5	17	3	US-08-461-939B-55 Sequence 55, Appl
13	50	43.5	17	3	US-08-464-000-55 Sequence 55, Appl
14	40.5	35.2	15	1	US-08-290-448A-28 Sequence 28, Appl
15	40.5	35.2	15	1	US-08-290-448A-28 Sequence 28, Appl
16	40.5	35.2	15	1	US-08-175-069A-28 Sequence 28, Appl
17	40.5	35.2	15	3	US-08-461-939B-28 Sequence 28, Appl
18	40.5	35.2	15	3	US-08-464-000-28 Sequence 28, Appl
19	37	32.2	16	4	US-09-461-325-515 Sequence 515, Appl
20	37	32.2	16	4	US-10-012-542-515 Sequence 515, Appl
21	37	32.2	16	4	US-10-115-123-515 Sequence 515, Appl
22	34	29.6	17	3	US-09-025-769B-207 Sequence 207, Appl
23	34	29.6	17	4	US-09-490-070A-207 Sequence 207, Appl
24	34	29.6	17	4	US-09-490-153-207 Sequence 207, Appl
25	31.5	27.4	12	3	US-09-025-769B-180 Sequence 180, Appl
26	31.5	27.4	12	4	US-09-490-070A-180 Sequence 180, Appl
27	31.5	27.4	12	4	US-09-490-153-180 Sequence 180, Appl

Sequence 23, Appl  
Sequence 23, Appl  
Sequence 29, Appl  
Sequence 29, Appl  
Sequence 9, Appl  
Sequence 22, Appl  
Sequence 3, Appl  
Sequence 6, Appl  
Sequence 31, Appl  
Sequence 31, Appl  
Sequence 32, Appl  
Sequence 32, Appl  
Sequence 56, Appl  
Sequence 19, Appl  
Sequence 25, Appl  
Sequence 107, App  
Sequence 107, App

ALIGNMENTS

RESULT 1  
US-08-467-023-49  
; Sequence 49, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

US-08-467-023-49

Query Match 96.5%; Score 111; DB 3; Length 20;  
 Best Local Similarity 90.0%; Pred. No. 1.4e-10;  
 Matches 18; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PRARYGLIHVANNNDPWSI 20  
 |||||:|||||:|||||:  
 Db 1 PRARYGLVHANNNDPWTI 20

RESULT 2

US-08-467-023-258  
 ; Sequence 258, Application US/08467023  
 ; Patent No. 6090386  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Griffith, Irwin J.;  
 ; APPLICANT: Pollock, Joanne;  
 ; APPLICANT: Bond, Julian F.;  
 ; APPLICANT: Garman, Richard D;  
 ; APPLICANT: Kuo, Mei-Chang;  
 ; APPLICANT: Yeung, Siu-mei H.;  
 ; APPLICANT: Brauer, Andrew;  
 ; APPLICANT: Exley, Mark A.;  
 ; APPLICANT: Powers, Steven P.  
 ; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
 ; NUMBER OF INVENTION: Japanese Cedar Pollen  
 ; NUMBER OF SEQUENCES: 261  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
 ; STREET: 610 Lincoln St  
 ; CITY: Waltham  
 ; STATE: MA  
 ; COUNTRY: USA  
 ; ZIP: 02154  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent in Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/467,023  
 ; FILING DATE: June 6, 1995  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/350,225  
 ; FILING DATE: December 6, 1994  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Jane E. Remillard  
 ; REGISTRATION NUMBER: 38,872  
 ; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (617) 227-7400  
 ; TELEFAX: (617) 227-5941  
 ; INFORMATION FOR SEQ ID NO: 258:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 19 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; FRAGMENT TYPE: internal

Query Match 90.4%; Score 104; DB 3; Length 19;  
 Best Local Similarity 89.5%; Pred. No. 1.6e-09;  
 Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 2 RARYGLIHVANNNDPWSI 20  
 |||||:|||||:|||||:  
 Db 1 RARYGLVHANNNDPWTI 19

RESULT 3

US-09-142-524D-62

; Sequence 62, Application US/09142524D  
 ; Patent No. 6719976  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akinori  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kino, Kohsuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: SPO-103  
 ; CURRENT APPLICATION NUMBER: US/09/142,524D  
 ; CURRENT FILING DATE: 1998-09-09  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 62  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (1)..(15)  
 ; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 48

Query Match 72.2%; Score 83; DB 4; Length 15;  
 Best Local Similarity 86.7%; Pred. No. 2.1e-06;  
 Matches 13; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 6 GLIHVANNNDPWSI 20  
 ||:|||||:|||||:  
 Db 1 GLVHANNNDPWTI 15

RESULT 4

US-09-142-524D-61  
 ; Sequence 61, Application US/09142524D  
 ; Patent No. 6719976  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Sone, Toshio  
 ; APPLICANT: Kume, Akinori  
 ; APPLICANT: Dairiki, Kazuo  
 ; APPLICANT: Iwama, Akiko  
 ; APPLICANT: Kino, Kohsuke  
 ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
 ; FILE REFERENCE: SPO-103  
 ; CURRENT APPLICATION NUMBER: US/09/142,524D  
 ; CURRENT FILING DATE: 1998-09-09  
 ; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
 ; PRIOR FILING DATE: 1997-03-10  
 ; NUMBER OF SEQ ID NOS: 174  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 61  
 ; LENGTH: 15  
 ; TYPE: PRT  
 ; ORGANISM: Cryptomeria japonica  
 ; FEATURE:  
 ; NAME/KEY: MISC FEATURE  
 ; LOCATION: (1)..(15)  
 ; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 47

Query Match 71.3%; Score 82; DB 4; Length 15;  
 Best Local Similarity 93.3%; Pred. No. 2.9e-06;  
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PRARYGLIHVANNNY 15  
 |||||:|||||:|||||:  
 Db 1 PRARYGLVHANNNY 15

```
RESULT 5
US-09-142-524D-63
; Sequence 63, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 63
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 49
US-09-142-524D-63

Query Match          50.4%; Score 58; DB 4; Length 15;
Best Local Similarity 90.0%; Pred. No. 0.015;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      11 ANNNYDPWSI 20
Db      1 ANNNYDPWTI 10
|||||||:|

RESULT 6
US-08-467-023-50
; Sequence 50, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994

RESULT 7
US-09-142-524D-60
; Sequence 60, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 60
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 46
US-09-142-524D-60

Query Match          50.4%; Score 58; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 0.02;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      11 ANNNYDPWSI 20
Db      1 ANNNYDPWTI 10
|||||||:|

RESULT 8
US-08-467-023-48
; Sequence 48, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
```

```
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 US2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 50:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-50

Query Match          50.4%; Score 58; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 0.02;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      11 ANNNYDPWSI 20
Db      1 ANNNYDPWTI 10
|||||||:|

RESULT 9
US-09-142-524D-60
; Sequence 60, Application US/09142524D
; Patent No. 6719976
; GENERAL INFORMATION:
; APPLICANT: Sone, Toshio
; APPLICANT: Kume, Akinori
; APPLICANT: Dairiki, Kazuo
; APPLICANT: Iwama, Akiko
; APPLICANT: Kino, Kohsuke
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
; FILE REFERENCE: SPO-103
; CURRENT APPLICATION NUMBER: US/09/142,524D
; CURRENT FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: PCT/JP97/00740
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 60
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Cryptomeria japonica
; FEATURE:
; NAME/KEY: MISC_FEATURE
; LOCATION: (1)..(15)
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 46
US-09-142-524D-60

Query Match          46.1%; Score 53; DB 4; Length 15;
Best Local Similarity 90.0%; Pred. No. 0.086;
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      1 PRARYGLHV 10
Db      6 PRARYGLVHV 15
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RESULT 10
US-08-467-023-48
; Sequence 48, Application US/08467023
; Patent No. 6090386
; GENERAL INFORMATION:
; APPLICANT: Griffith, Irwin J.;
; APPLICANT: Pollock, Joanne;
; APPLICANT: Bond, Julian F.;
; APPLICANT: Garman, Richard D.;
; APPLICANT: Kuo, Mei-Chang;
; APPLICANT: Yeung, Siu-mei H.;
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; APPLICANT: Brauer, Andrew;
; APPLICANT: Exley, Mark A.;
; APPLICANT: Powers, Steven P.
; TITLE OF INVENTION: Allergenic Proteins And Peptides From
; TITLE OF INVENTION: Japanese Cedar Pollen
; NUMBER OF SEQUENCES: 261
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.
; STREET: 610 Lincoln St
; CITY: Waltham
; STATE: MA
; COUNTRY: USA
; ZIP: 02154
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/467,023
; FILING DATE: June 6, 1995
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/350,225
; FILING DATE: December 6, 1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane E. Remillard
; REGISTRATION NUMBER: 38,872
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
; US-08-467-023-48

; Query Match 46.1%; Score 53; DB 3; Length 20;
; Best Local Similarity 90.0%; Pred. No. 0.12;
; Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 PRARYGLIHV 10
Db 11 PRARYGLVHV 20

RESULT 9
US-08-290-448A-55
; Sequence 55, Application US/08290448A
; Patent No. 5676954
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rainar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
; US-08-467-023-48
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
; US-08-290-448A-55

; Query Match 43.5%; Score 50; DB 1; Length 17;
; Best Local Similarity 61.5%; Pred. No. 0.28;
; Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 6 GLIHVANNYDPW 18
Db 1 GFFQVNNYDRW 13

RESULT 10
US-08-290-448A-55
; Sequence 55, Application US/08290448A
; Patent No. 5698204
; GENERAL INFORMATION:
; APPLICANT: Rogers, Bruce
; APPLICANT: Klapper, David G.
; APPLICANT: Rainar, Thorunn
; APPLICANT: Kuo, Mei-chang
; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses
; NUMBER OF SEQUENCES: 93
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/290,448A
; FILING DATE: August 15, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: May 29, 1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: March 17, 1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
; US-08-290-448A-55
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LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-55

Query Match 43.5%; Score 50; DB 1; Length 17;  
Best Local Similarity 61.5%; Pred. No. 0.28;  
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 6 GLIHVANNYDPW 18  
Db 1 GFFQVNNYDRW 13

RESULT 11

US-08-175-069A-55  
Sequence 55, Application US/08175069A  
Patent No. 5776761  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/175,069A  
FILING DATE: December 29, 1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018DV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-175-069A-55

Query Match 43.5%; Score 50; DB 1; Length 17;  
Best Local Similarity 61.5%; Pred. No. 0.28;  
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 6 GLIHVANNYDPW 18  
Db 1 GFFQVNNYDRW 13

RESULT 12

US-08-461-939B-55  
Sequence 55, Application US/08461939B  
Patent No. 6335019  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Methods For Treating Sensitivity To A  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP  
STREET: 28 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/461,939B  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/464,000  
FILING DATE: 05-JUN-1995  
APPLICATION NUMBER: US 08/290,448  
FILING DATE: 15-AUG-1994  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: 29-MAY-1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: 17-MAR-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CNDV  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 742-4214  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-461-939B-55

Query Match 43.5%; Score 50; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 0.28;  
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 6 GLIHVANNYDPW 18  
Db 1 GFFQVNNYDRW 13

RESULT 13

US-08-464-000-55  
Sequence 55, Application US/08464000  
Patent No. 6335020  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD, LLP

STREET: 60 State Street  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/464,000  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/290,448  
FILING DATE: 15-AUG-1994  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: 29-MAY-1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: 17-MAR-1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CN2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-464-000-55

Query Match 43.5%; Score 50; DB 3; Length 17;  
Best Local Similarity 61.5%; Pred. No. 0.28;  
Matches 8; Conservative 0; Mismatches 5; Indels 5; Gaps 0;

QY 6 GLIHVANNYDPW 18  
Db 1 GPFQVNNYDRW 13

RESULT 14  
US-08-290-448A-28  
Sequence 28, Application US/08290448A  
Patent No. 5676954  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951

FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CN  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-28

Query Match 35.2%; Score 40.5; DB 1; Length 15;  
Best Local Similarity 50.0%; Pred. No. 7.2;  
Matches 8; Conservative 2; Mismatches 5; Indels 1; Gaps 1;

QY 1 PRARYGLIHVANNYD 16  
Db 1 PR-RFGFFQIVNNFYD 15

RESULT 15  
US-08-290-448A-28  
Sequence 28, Application US/08290448A  
Patent No. 5698204  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CN  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)227-7400  
TELEFAX: (617)227-5941  
INFORMATION FOR SEQ ID NO: 28:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 15 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal

US-08-290-448A-28

Query Match 35.2%; Score 40.5; DB 1; Length 15;  
Best Local Similarity 50.0%; Pred. No. 7.2;  
Matches 8; Conservative 2; Mismatches 5; Indels 1; Gaps 1;

Qy 1 PRARYGLIHVANNYYD 16  
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Db 1 PR-RFGFFQIVNNFYD 15

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Job time : 15.6 secs

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OM protein - protein search, using sw model

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Title: US-09-202-464-27

Perfect score: 114

Sequence: 1 ANNYDPWSIYAIIGSSNPT 20

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Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

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Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

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- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	53	46.5	15	14	US-10-354-240-65
5	38	33.3	16	14	US-10-346-162-100
6	37	32.5	16	14	US-10-012-542-515
7	37	32.5	16	14	US-10-115-123-515
8	35	30.7	13	14	US-10-300-694A-69
9	35	30.7	15	14	US-10-346-162-142
10	33	28.9	11	15	US-10-468-543-7
11	33	28.9	11	15	US-10-468-543-25
12	33	28.9	14	17	US-10-813-638-1274
13	33	28.9	15	15	US-10-182-936A-191

14	33	28.9	20	14	US-10-280-066-275
15	33	28.9	20	14	US-10-280-066-276
16	33	28.9	20	14	US-10-269-695-89
17	33	28.9	20	14	US-10-410-938-89
18	32	28.1	17	14	US-10-100-608B-5
19	32	28.1	17	14	US-10-100-608B-8
20	32	28.1	17	16	US-10-099-791E-5
21	32	28.1	17	16	US-10-099-791E-8
22	31	27.2	9	10	US-09-988-493-280
23	31	27.2	12	16	US-10-652-407-44
24	31	27.2	18	16	US-10-258-144-357
25	31	27.2	20	14	US-10-162-538-12
26	31	27.2	20	14	US-10-066-965A-1
27	31	27.2	20	14	US-10-066-965A-7
28	31	27.2	20	14	US-10-269-695-86
29	31	27.2	20	14	US-10-410-938-86
30	30.5	26.8	15	15	US-10-363-701A-5
31	30.5	26.8	20	17	US-10-831-409-9
32	30	26.3	7	15	US-10-363-208-269
33	30	26.3	7	16	US-10-363-204-84
34	30	26.3	7	17	US-10-727-335-47
35	30	26.3	8	13	US-10-114-176-23
36	30	26.3	8	14	US-10-323-013-23
37	30	26.3	9	13	US-10-114-176-29
38	30	26.3	9	14	US-10-169-351-14
39	30	26.3	9	14	US-10-323-013-29
40	30	26.3	9	15	US-10-447-257-16
41	30	26.3	10	16	US-10-450-036A-96
42	30	26.3	12	16	US-10-692-151-33
43	30	26.3	14	17	US-10-813-638-1414
44	30	26.3	15	10	US-09-880-748-2941
45	30	26.3	15	14	US-10-293-418-2941

ALIGNMENTS

RESULT 1

US-10-354-240-63  
; Sequence 63, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kousuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 63:  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 49  
US-10-354-240-63

Query Match 74.6%; Score 85; DB 14; Length 15;  
Best Local Similarity 93.3%; Pred. No. 5e-06; Indels 0; Gaps 0;  
Matches 14; Conservative 1; Mismatches 0;  
QY 1 ANNYDPWSIYAIIGG 15  
|||||||:|||||

Db 1 ANNNYDPWTIYAGG 15

RESULT 2  
US-10-354-240-64

; Sequence 64, Application US/10354240  
; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 64

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 50

US-10-354-240-64

Query Match 71.9%; Score 82; DB 14; Length 15;

Best Local Similarity 93.3%; Pred. No. 1.4e-05;

Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 6 DPWSIYAGGSSNPT 20

|||||:|||||

Db 1 DPWTIYAGGSSNPT 15

RESULT 3

US-10-354-240-62

; Sequence 62, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 62

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 48

US-10-354-240-62

Query Match 50.9%; Score 58; DB 14; Length 15;

Best Local Similarity 90.0%; Pred. No. 0.069;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSI 10

|||||:|

Db 6 ANNNYDPWTI 15

RESULT 4

US-10-354-240-65

; Sequence 65, Application US/10354240

; Publication No. US20030185847A1

; GENERAL INFORMATION:

; APPLICANT: Sone, Toshio

; APPLICANT: Kume, Akinori

; APPLICANT: Dairiki, Kazuo

; APPLICANT: Iwama, Akiko

; APPLICANT: Kino, Kohsuke

; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease

; FILE REFERENCE: SPO-103D1

; CURRENT APPLICATION NUMBER: US/10/354,240

; CURRENT FILING DATE: 2003-01-29

; PRIOR APPLICATION NUMBER: PCT/JP97/00740

; PRIOR FILING DATE: 1997-03-10

; PRIOR APPLICATION NUMBER: US 09/142,524

; PRIOR FILING DATE: 1998-09-09

; NUMBER OF SEQ ID NOS: 174

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 65

; LENGTH: 15

; TYPE: PRT

; ORGANISM: Cryptomeria japonica

; FEATURE:

; NAME/KEY: MISC FEATURE

; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 51

US-10-354-240-65

Query Match 46.5%; Score 53; DB 14; Length 15;

Best Local Similarity 100.0%; Pred. No. 0.4;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 YAGGSSNPT 20

|||||

Db 1 YAGGSSNPT 10

RESULT 5

US-10-346-162-100

; Sequence 100, Application US/10346162

; Publication No. US20030224390A1

; GENERAL INFORMATION:

; APPLICANT: KARO BIO USA, INC.

; APPLICANT: FOWLKES, Dana M.

; APPLICANT: BARNETT, Thomas R.

; APPLICANT: RUEHRER, Benjamin

; TITLE OF INVENTION: METHOD OF IDENTIFYING CONFORMATION-SENSITIVE BINDING PEPTIDES AND

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: PAIGE=1H

; CURRENT APPLICATION NUMBER: US/10/346,162

; CURRENT FILING DATE: 2003-01-17

; PRIOR APPLICATION NUMBER: US 09/614,865

; PRIOR FILING DATE: 2000-07-12

; PRIOR APPLICATION NUMBER: US 09/860,688

; PRIOR FILING DATE: 2001-05-21

; NUMBER OF SEQ ID NOS: 268

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 100

; LENGTH: 16

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic

## US-10-346-162-100

Query Match 33.3%; Score 38; DB 14; Length 16;  
Best Local Similarity 33.3%; Pred. No. 86;  
Matches 5; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

QY 1 ANNNYDPSIYATGG 15  
:|:|:|:|:  
Db 2 SHNHSPWLPRLGG 16

## RESULT 6

US-10-012-542-515  
; Sequence 515, Application US/10012542  
; Publication No. US20030044851A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029P1  
; CURRENT FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/461,325  
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-12-14  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,507  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,508  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,509  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/089,510  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/090,112  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-22  
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/090,113  
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 515  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-012-542-515

Query Match 32.5%; Score 37; DB 14; Length 16;  
Best Local Similarity 55.6%; Pred. No. 1.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ANNNYDPS 9  
:|:|:|:|:  
Db 5 SGNLDPWA 13

## RESULT 7

US-10-115-123-515  
; Sequence 515, Application US/10115123  
; Publication No. US20030065151A1  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029G3AP1D2  
; CURRENT APPLICATION NUMBER: US/10/115,123  
; CURRENT FILING DATE: 2002-04-04  
; PRIOR APPLICATION NUMBER: PCT/US99/13418  
; PRIOR FILING DATE: 1999-06-15  
; PRIOR APPLICATION NUMBER: 60/089,507  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,508  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,509  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/089,510  
; PRIOR FILING DATE: 1998-06-16  
; PRIOR APPLICATION NUMBER: 60/090,112

; PRIOR FILING DATE: 1998-06-22  
; PRIOR APPLICATION NUMBER: 60/090,113  
; PRIOR FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 515  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-115-123-515

Query Match 32.5%; Score 37; DB 14; Length 16;  
Best Local Similarity 55.6%; Pred. No. 1.2e+02;  
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 ANNNYDPS 9  
:|:|:|:|:  
Db 5 SGNLDPWA 13

## RESULT 8

US-10-300-694A-69  
; Sequence 69, Application US/10300694A  
; Publication No. US20030185870A1  
; GENERAL INFORMATION:  
; APPLICANT: Duke University  
; APPLICANT: Grinstaff, Mark W.  
; APPLICANT: Kenan, Daniel J.  
; APPLICANT: Walsh, Elisabeth B.  
; APPLICANT: Middleton, Cryetan  
; TITLE OF INVENTION: INTERFACIAL BIOMATERIALS  
; FILE REFERENCE: 180/143/2  
; CURRENT APPLICATION NUMBER: US/10/300,694A  
; CURRENT FILING DATE: 2003-05-07  
; PRIOR APPLICATION NUMBER: US 60/331,843  
; PRIOR FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 117  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 69  
; LENGTH: 13  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: Polycarbonate-binding peptide 69  
US-10-300-694A-69

Query Match 30.7%; Score 35; DB 14; Length 13;  
Best Local Similarity 71.4%; Pred. No. 2e+02;  
Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2 NNNYDPW 8  
:|:|:|:|:  
Db 3 NVNYNPW 9

## RESULT 9

US-10-346-162-142  
; Sequence 142, Application US/10346162  
; Publication No. US20030224390A1  
; GENERAL INFORMATION:  
; APPLICANT: KARO BIO USA, INC.  
; APPLICANT: FOWLKES, Dana M.  
; APPLICANT: BARNETT, Thomas R.  
; APPLICANT: BUEHRER, Benjamin  
; TITLE OF INVENTION: METHOD OF IDENTIFYING CONFORMATION-SENSITIVE BINDING PEPTIDES AND  
; FILE REFERENCE: PAIGE-1H  
; CURRENT APPLICATION NUMBER: US/10/346,162  
; CURRENT FILING DATE: 2003-01-17  
; PRIOR APPLICATION NUMBER: US 09/614,865  
; PRIOR FILING DATE: 2000-07-12  
; PRIOR APPLICATION NUMBER: US 09/860,688  
; PRIOR FILING DATE: 2001-05-21

```

; NUMBER OF SEQ ID NOS: 268
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 142
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-346-162-142

Query Match      30.7%; Score 35; DB 14; Length 15;
Best Local Similarity 45.5%; Pred. No. 2.3e+02;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 7 PWSIYAIGGSS 17
Db 4 PMLHYLGGS 14

RESULT 10
US-10-468-543-7
; Sequence 7, Application US/10468543
; Publication No. US20040091938A1
; GENERAL INFORMATION:
; APPLICANT: Irimura, Tatsuro
; APPLICANT: Matsumoto, Mariko
; APPLICANT: Yim, Mijung
; APPLICANT: Ono, Takashi
; TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same
; FILE REFERENCE: 03-786
; CURRENT APPLICATION NUMBER: US/10/468,543
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: JP 2001-044221
; PRIOR FILING DATE: 2001-02-20
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Maackia amurensis
US-10-468-543-7

```

```

Query Match      28.9%; Score 33; DB 15; Length 11;
Best Local Similarity 66.7%; Pred. No. 3.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NNYDPW 8
Db 6 HSYDPW 11

RESULT 11
US-10-468-543-25
; Sequence 25, Application US/10468543
; Publication No. US20040091938A1
; GENERAL INFORMATION:
; APPLICANT: Irimura, Tatsuro
; APPLICANT: Matsumoto, Mariko
; APPLICANT: Yim, Mijung
; APPLICANT: Ono, Takashi
; TITLE OF INVENTION: Lectins for Analyzing Sugar Chains and Method of Using the Same
; FILE REFERENCE: 03-786
; CURRENT APPLICATION NUMBER: US/10/468,543
; CURRENT FILING DATE: 2003-08-20
; PRIOR APPLICATION NUMBER: JP 2001-044221
; PRIOR FILING DATE: 2001-02-20
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 25
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Maackia amurensis
US-10-468-543-25

```

```

Query Match      28.9%; Score 33; DB 15; Length 11;
Best Local Similarity 66.7%; Pred. No. 3.4e+02;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 3 NNYDPW 8
Db 6 HSYDPW 11

RESULT 12
US-10-813-638-1274
; Sequence 1274, Application US/10813638
; Publication No. US20040235026A1
; GENERAL INFORMATION:
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Leach, Martin D.
; TITLE OF INVENTION: NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND MI
; TITLE OF INVENTION: USE THEREOF
; FILE REFERENCE: 15966-599
; CURRENT APPLICATION NUMBER: US/10/813,638
; CURRENT FILING DATE: 2004-03-29
; PRIOR APPLICATION NUMBER: 60/163,783
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1468
; SOFTWARE: CuraGen Patent Formatter Version 0.9
; SEQ ID NO 1274
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (7)...(0)
; OTHER INFORMATION: cSNP translation
US-10-813-638-1274

```

```

Query Match      28.9%; Score 33; DB 17; Length 14;
Best Local Similarity 57.1%; Pred. No. 4.4e+02;
Matches 4; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 4 NYDPWSI 10
Db 6 SYNPSL 12

RESULT 13
US-10-182-936A-191
; Sequence 191, Application US/10182936A
; Publication No. US20040038860A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Kristina M.
; APPLICANT: Anisowicz, Anthony
; APPLICANT: Bhat, Bheem
; APPLICANT: Damagnez, Veronique
; APPLICANT: Robinson, John
; APPLICANT: Yaworsky, Paul
; TITLE OF INVENTION: Reagents and Method for Modulating DKK-Mediated Interactions
; FILE REFERENCE: 032796-143
; CURRENT APPLICATION NUMBER: US/10/182,936A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: PCT/US02/15982
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: US 60/291,311
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/353,058
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: US 60/361,293
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 191
; LENGTH: 15
; TYPE: PRT

```



```
; ORGANISM: Homo sapiens
US-10-182-936A-191

Query Match      28.9%; Score 33; DB 15; Length 15;
Best Local Similarity 50.0%; Pred. No. 4.7e+02;
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 YDPSIYAIG 14
   : |||
Db 6 WEAWSCYACG 15

RESULT 14
US-10-280-066-275
; Sequence 275, Application US/10280066
; Publication No. US20030180718A1
; GENERAL INFORMATION:
; APPLICANT: Pillutla, Renuka C.
; APPLICANT: Brissette, Renee
; APPLICANT: Spruyt, Michael
; APPLICANT: Dedova, Olga
; APPLICANT: Blume, Arthur J.
; APPLICANT: Prendergast, John
; APPLICANT: Goldstein, Neil I.
; TITLE OF INVENTION: TARGET SPECIFIC SCREENING AND ITS USE FOR IDENTIFYING TARGET BIND
; FILE REFERENCE: 2598-4009US1
; CURRENT APPLICATION NUMBER: US/10/280,066
; CURRENT FILING DATE: 2002-10-24
; PRIOR APPLICATION NUMBER: 60/345,471
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 537
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 275
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Eschericia coli
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: 0700902-Hras-20M-PP-BC-B6
US-10-280-066-275

Query Match      28.9%; Score 33; DB 14; Length 20;
Best Local Similarity 50.0%; Pred. No. 6.3e+02;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 6 DPWSIYAIG 15
   : |||
Db 6 DPWFSRGVGG 15

RESULT 15
US-10-280-066-276
; Sequence 276, Application US/10280066
; Publication No. US20030180718A1
; GENERAL INFORMATION:
; APPLICANT: Pillutla, Renuka C.
; APPLICANT: Brissette, Renee
; APPLICANT: Spruyt, Michael
; APPLICANT: Dedova, Olga
; APPLICANT: Blume, Arthur J.
; APPLICANT: Prendergast, John
; APPLICANT: Goldstein, Neil I.
; TITLE OF INVENTION: TARGET SPECIFIC SCREENING AND ITS USE FOR IDENTIFYING TARGET BIND
; FILE REFERENCE: 2598-4009US1
; CURRENT APPLICATION NUMBER: US/10/280,066
; CURRENT FILING DATE: 2002-10-24
; PRIOR APPLICATION NUMBER: 60/345,471
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 537
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 276
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Eschericia coli
; FEATURE:
; NAME/KEY: MISC FEATURE
; OTHER INFORMATION: 0700902-Hras-20M-PP-BC-B7
US-10-280-066-276

Query Match      28.9%; Score 33; DB 14; Length 20;
Best Local Similarity 50.0%; Pred. No. 6.3e+02;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 6 DPWSIYAIG 15
   : |||
Db 6 DPWFSRGVGG 15

Search completed: January 26, 2005, 16:55:05
Job time : 56.5 secs
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OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: US-09-202-464-27

Perfect score: 114

Sequence: 1 ANNNYDPSIYAIGSSNPT 20

Scoring table: BLOSUM62

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Searched: 478139 seqs, 66318000 residues

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Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

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6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	111	97.4	20	3	US-08-467-023-50
2	85	74.6	15	4	US-09-142-524D-63
3	82	71.9	15	4	US-09-142-524D-64
4	58	50.9	15	4	US-09-142-524D-62
5	58	50.9	19	3	US-08-467-023-258
6	58	50.9	20	3	US-08-467-023-49
7	53	46.5	15	4	US-09-142-524D-65
8	53	46.5	20	3	US-08-467-023-51
9	50	43.9	17	1	US-08-230-448A-55
10	50	43.9	17	1	US-08-230-448A-55
11	50	43.9	17	1	US-08-175-069A-55
12	50	43.9	17	3	US-08-461-939B-55
13	50	43.9	17	3	US-08-464-000-55
14	42	36.8	17	4	US-09-379-665D-10
15	38	33.3	20	4	US-08-861-153A-10
16	37	32.5	16	4	US-09-461-325-515
17	37	32.5	16	4	US-10-012-542-515
18	37	32.5	16	4	US-10-115-123-515
19	35	30.7	15	4	US-09-069-827A-101
20	35	30.7	15	4	US-09-069-827A-109
21	34	29.8	15	4	US-09-069-827A-98
22	33	28.9	20	4	US-08-861-153A-12
23	32	28.1	15	4	US-09-069-827A-103
24	31	27.2	10	4	US-09-620-091-58
25	31	27.2	16	4	US-09-620-091-81
26	31	27.2	20	1	US-08-142-449B-1
27	31	27.2	20	3	US-08-504-538A-12

Sequence 12, Appl  
Sequence 12, Appl  
Sequence 23, Appl  
Sequence 23, Appl  
Sequence 29, Appl  
Sequence 29, Appl  
Sequence 30, Appl  
Sequence 30, Appl  
Sequence 33, Appl  
Sequence 33, Appl  
Sequence 99, Appl  
Sequence 100, App  
Sequence 108, App  
Sequence 80, Appl  
Sequence 8, Appl  
Sequence 8, Appl  
Sequence 16, Appl  
Sequence 203, App  
Sequence 16, Appl

#### ALIGNMENTS

RESULT 1  
US-08-467-023-50  
; Sequence 50, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 50:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

US-08-467-023-50

Query Match 97.4%; Score 111; DB 3; Length 20;  
Best Local Similarity 95.0%; Pred. No. 2.5e-10;  
Matches 19; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSIYAIGSSNPT 20  
DB 1 ANNNYDPWTIYAIGSSNPT 20

## RESULT 2

US-09-142-524D-63  
; Sequence 63, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 63  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 49  
US-09-142-524D-63

Query Match 74.6%; Score 85; DB 4; Length 15;  
Best Local Similarity 93.3%; Pred. No. 1.6e-06;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSIYAIGG 15  
DB 1 ANNNYDPWTIYAIGG 15

## RESULT 3

US-09-142-524D-64  
; Sequence 64, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 64  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 50  
US-09-142-524D-64

Query Match 71.9%; Score 82; DB 4; Length 15;  
Best Local Similarity 93.3%; Pred. No. 4.4e-06;  
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 6 DPWSIYAIGSSNPT 20  
DB 1 DPWTIYAIGSSNPT 15

## RESULT 4

US-09-142-524D-62  
; Sequence 62, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 62  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC\_FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 48  
US-09-142-524D-62

Query Match 50.9%; Score 58; DB 4; Length 15;  
Best Local Similarity 90.0%; Pred. No. 0.019;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSI 10  
DB 6 ANNNYDPWTI 15

## RESULT 5

US-08-467-023-258  
; Sequence 258, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffeth, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 258:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-258

Query Match 50.9%; Score 58; DB 3; Length 19;  
Best Local Similarity 90.0%; Pred. No. 0.025;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSI 10  
Db 10 ANNNYDPWTI 19  
|||||||:|

RESULT 6  
US-08-467-023-49  
Sequence 49, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994

ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-49

Query Match 50.9%; Score 58; DB 3; Length 20;  
Best Local Similarity 90.0%; Pred. No. 0.027;  
Matches 9; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ANNNYDPWSI 10  
Db 11 ANNNYDPWTI 20  
|||||||:|

RESULT 7  
US-09-142-524D-65  
Sequence 65, Application US/09142524D  
Patent No. 6719976  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinori  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kousuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103  
CURRENT APPLICATION NUMBER: US/09/142,524D  
CURRENT FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 65  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(15)  
OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 51  
US-09-142-524D-65

Query Match 46.5%; Score 53; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.11;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 YAIGSSNPT 20  
Db 1 YAIGSSNPT 10  
|||||||

RESULT 8  
US-08-467-023-51  
Sequence 51, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D.;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;

APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
TITLE OF INVENTION: Japanese Cedar Pollen  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-51

Query Match 46.5%; Score 53; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.15;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 11 YAIGSSNPT 20  
Db 1 YAIGSSNPT 10

RESULT 9  
US-08-290-448A-55  
Sequence 55, Application US/08290448A  
Patent No. 5676954  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CN  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 17 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-290-448A-55

Query Match 43.9%; Score 50; DB 1; Length 17;  
Best Local Similarity 72.7%; Pred. No. 0.36;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPWSIYA 12  
Db 7 NNNYDRWGTYA 17

RESULT 10  
US-08-290-448A-55  
Sequence 55, Application US/08290448A  
Patent No. 5698204  
GENERAL INFORMATION:  
APPLICANT: Rogers, Bruce  
APPLICANT: Klapper, David G.  
APPLICANT: Rafnar, Thorunn  
APPLICANT: Kuo, Mei-chang  
TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
NUMBER OF SEQUENCES: 93  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street, suite 510  
CITY: Boston  
STATE: Massachusetts  
COUNTRY: USA  
ZIP: 02109-1875  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/290,448A  
FILING DATE: August 15, 1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/529,951  
FILING DATE: May 29, 1990  
APPLICATION NUMBER: US 07/325,365  
FILING DATE: March 17, 1989  
ATTORNEY/AGENT INFORMATION:  
NAME: Amy E. Mandragouras  
REGISTRATION NUMBER: 36,207  
REFERENCE/DOCKET NUMBER: IMI-018CN  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 55:  
SEQUENCE CHARACTERISTICS:

LENGTH: 17 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-290-448A-55

Query Match 43.9%; Score 50; DB 1; Length 17;  
 Best Local Similarity 72.7%; Pred. No. 0.36;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPWSIYA 12  
 |||||  
 Db 7 NNNYDRWGTYA 17

RESULT 11

US-08-175-069A-55  
 ; Sequence 55, Application US/08175069A  
 ; Patent No. 5776761  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-Chang  
 ; TITLE OF INVENTION: Allergenic Proteins From Ragweed and Uses  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ; STREET: 60 State Street  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/175,069A  
 FILING DATE: December 29, 1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: May 29, 1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: March 17, 1989  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-018DV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)227-5941  
 INFORMATION FOR SEQ ID NO: 55:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-175-069A-55

Query Match 43.9%; Score 50; DB 1; Length 17;  
 Best Local Similarity 72.7%; Pred. No. 0.36;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPWSIYA 12  
 |||||  
 Db 7 NNNYDRWGTYA 17

RESULT 12

US-08-461-939B-55  
 ; Sequence 55, Application US/08461939B  
 ; Patent No. 6335019  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-Chang  
 ; TITLE OF INVENTION: Methods For Treating Sensitivity To A  
 ; PROTEIN ALLERGEN USING PEPTIDES WHICH INCLUDE A T CELL EPITOPE  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
 ; STREET: 28 State Street  
 ; CITY: Boston  
 ; STATE: Massachusetts  
 ; COUNTRY: USA  
 ; ZIP: 02109-1875

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/461,939B  
 FILING DATE:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/464,000  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 08/290,448  
 FILING DATE: 15-AUG-1994  
 APPLICATION NUMBER: US 07/529,951  
 FILING DATE: 29-MAY-1990  
 APPLICATION NUMBER: US 07/325,365  
 FILING DATE: 17-MAR-1989

ATTORNEY/AGENT INFORMATION:  
 NAME: Amy E. Mandragouras  
 REGISTRATION NUMBER: 36,207  
 REFERENCE/DOCKET NUMBER: IMI-018CNDV  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617)227-7400  
 TELEFAX: (617)742-4214  
 INFORMATION FOR SEQ ID NO: 55:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 17 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FRAGMENT TYPE: internal  
 US-08-461-939B-55

Query Match 43.9%; Score 50; DB 3; Length 17;  
 Best Local Similarity 72.7%; Pred. No. 0.36;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 NNNYDPWSIYA 12  
 |||||  
 Db 7 NNNYDRWGTYA 17

RESULT 13

US-08-464-000-55  
 ; Sequence 55, Application US/08464000  
 ; Patent No. 6335020  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rogers, Bruce  
 ; APPLICANT: Klapper, David G.  
 ; APPLICANT: Rafnar, Thorunn  
 ; APPLICANT: Kuo, Mei-Chang  
 ; TITLE OF INVENTION: Allergenic Peptides from Ragweed Pollen  
 ; NUMBER OF SEQUENCES: 93  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: LAHIVE & COCKFIELD, LLP

```

; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/464,000
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION NUMBER: US 08/290,448
; FILING DATE: 15-AUG-1994
; APPLICATION NUMBER: US 07/529,951
; FILING DATE: 29-MAY-1990
; APPLICATION NUMBER: US 07/325,365
; FILING DATE: 17-MAR-1989
; ATTORNEY/AGENT INFORMATION:
; NAME: Amy E. Mandragouras
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-018CN2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 55:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-464-000-55

```

```

Query Match 43.9%; Score 50; DB 3; Length 17;
Best Local Similarity 72.7%; Pred. No. 0.36;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY 2 NNYDPWSIYA 12
| | | | |
Db 7 NNYDRWGTYA 17

```

```

RESULT 14
US-09-379-665D-10
; Sequence 10, Application US/09379665D
; Patent No. 6509184
; GENERAL INFORMATION:
; APPLICANT: National Renewable Energy Laboratory
; TITLE OF INVENTION: ALKALINE TOLERANT DEXTRANASE FROM STREPTOMYCES ANULATUS
; FILE REFERENCE: NREL 98-37
; CURRENT APPLICATION NUMBER: US/09/379,665D
; CURRENT FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 10
; LENGTH: 17
; TYPE: PRT
; ORGANISM: DEX 1
US-09-379-665D-10

```

```

Query Match 36.8%; Score 42; DB 4; Length 17;
Best Local Similarity 37.5%; Pred. No. 5.9;
Matches 6; Conservative 5; Mismatches 5; Indels 0; Gaps 0;

```

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QY 4 NYDPWSIYAIGGSSNP 19
| | | | |
Db 1 NWDNNAWGFGGNPDP 16

```

RESULT 15

```

US-08-861-153A-10
; Sequence 10, Application US/08861153A
; Patent No. 6723694
; GENERAL INFORMATION:
; APPLICANT: BEN-SASSON, Shmuel A
; TITLE OF INVENTION: SHORT PEPTIDES WHICH SELECTIVELY MODULATE INTRACELLULAR SIGNALING
; FILE REFERENCE: BEN-SASSON=1
; CURRENT APPLICATION NUMBER: US/08/861,153A
; CURRENT FILING DATE: 1997-05-21
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 10
; LENGTH: 20
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-08-861-153A-10

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```

Query Match 33.3%; Score 38; DB 4; Length 20;
Best Local Similarity 41.7%; Pred. No. 28;
Matches 5; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

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QY 8 WSIYAIGGSSNP 19
| | | | |
Db 1 WEIFSLGGTYPY 12

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Search completed: January 26, 2005, 16:08:29
Job time : 15.6 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: January 26, 2005, 16:03:29 ; Search time 55.4 Seconds  
(without alignments)  
130.429 Million cell updates/sec

Title: US-09-202-464-29

Perfect score: 101

Sequence: 1 ILSEGNSTAPNDSRKKEVT 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1608061 seqs, 361289386 residues

Total number of hits satisfying chosen parameters: 296681

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09E\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	67	66.3	15	14	US-10-354-240-67
2	62	61.4	15	14	US-10-354-240-68
3	48	47.5	15	14	US-10-354-240-66
4	37	36.6	15	14	US-10-354-240-69
5	33	32.7	15	14	US-10-354-240-117
6	32	31.7	15	16	US-09-966-459A-60
7	32	31.7	15	16	US-10-323-412-60
8	31	30.7	14	14	US-10-172-425B-31
9	31	30.7	15	15	US-10-432-422-67
10	31	30.7	17	16	US-10-632-706-141
11	31	30.7	17	16	US-10-632-706-145
12	31	30.7	17	16	US-10-632-706-149
13	31	30.7	17	16	US-10-632-706-153

14	31	30.7	17	16	US-10-632-706-157	Sequence 157, App
15	31	30.7	20	14	US-10-057-789-298	Sequence 298, App
16	31	30.7	20	14	US-10-213-628-298	Sequence 298, App
17	30	29.7	14	14	US-10-172-425B-44	Sequence 44, Appl
18	29	28.7	14	17	US-10-777-893-65	Sequence 65, Appl
19	29	28.7	15	9	US-09-739-852-8	Sequence 8, Appl
20	29	28.7	15	14	US-10-354-240-116	Sequence 116, App
21	29	28.7	15	16	US-10-203-915A-126	Sequence 126, App
22	29	28.7	16	9	US-09-889-468-44	Sequence 44, Appl
23	29	28.7	17	14	US-10-160-232-16	Sequence 16, Appl
24	29	28.7	17	14	US-10-281-479A-26	Sequence 26, Appl
25	29	28.7	17	14	US-10-275-180A-26	Sequence 26, Appl
26	29	28.7	17	14	US-10-286-132A-26	Sequence 9, Appl
27	29	28.7	17	17	US-10-477-377-9	Sequence 202, App
28	29	28.7	18	14	US-10-084-813-202	Sequence 428, App
29	29	28.7	18	14	US-10-084-813-428	Sequence 429, App
30	29	28.7	18	14	US-10-084-813-430	Sequence 430, App
31	29	28.7	18	14	US-10-084-813-431	Sequence 431, App
32	29	28.7	18	14	US-10-094-407A-19	Sequence 19, Appl
33	29	28.7	18	14	US-10-383-930-17	Sequence 17, Appl
34	29	28.7	20	16	US-10-417-895A-81	Sequence 81, Appl
35	28.5	28.2	14	15	US-10-080-100-23	Sequence 23, Appl
36	28	27.7	8	13	US-10-416-797-19	Sequence 19, Appl
37	28	27.7	13	9	US-09-966-955A-32	Sequence 32, Appl
38	28	27.7	13	10	US-09-956-940-52	Sequence 52, Appl
39	28	27.7	13	10	US-09-880-748-2991	Sequence 2991, Ap
40	28	27.7	13	14	US-10-293-418-2991	Sequence 2991, Ap
41	28	27.7	15	15	US-10-442-909-42	Sequence 42, Appl
42	28	27.7	16	9	US-09-757-774-3	Sequence 3, Appl
43	28	27.7	16	9	US-09-757-774-4	Sequence 4, Appl
44	28	27.7	16	15	US-10-449-829A-5	Sequence 5, Appl
45	28	27.7	16	15		

ALIGNMENTS

RESULT 1

US-10-354-240-67  
; Sequence 67, Application US/10354240  
; Publication No. US20030185847A1  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kino, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103D1  
; CURRENT APPLICATION NUMBER: US/10/354,240  
; CURRENT FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; PRIOR APPLICATION NUMBER: US 09/142,524  
; PRIOR FILING DATE: 1998-09-09  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 67  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 53  
US-10-354-240-67

Query Match 66.3%; Score 67; DB 14; Length 15;  
Best Local Similarity 92.9%; Pred.No. 0.00059;  
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDS 14  
|||||||



```

; LOCATION: (1)...(15)
; OTHER INFORMATION: Cryj2 peptide, Figure 2, Row 34
US-10-354-240-117

Query Match      32.7%; Score 33; DB 14; Length 15;
Best Local Similarity 70.0%; Pred. No. 2.1e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 GNSFTAPNDS 14
   | | | | |
Db 2 GISITAPRDS 11

RESULT 6
US-09-966-459A-60
; Sequence 60, Application US/09966459A
; Publication No. US20030022237A1
; GENERAL INFORMATION:
; APPLICANT: FEDER, J.N.
; APPLICANT: MINTIER, G.
; APPLICANT: RAMANATHAN, C.S.
; APPLICANT: HAWKEN, D.R.
; APPLICANT: CACACE, A.
; APPLICANT: BARBER, L.
; APPLICANT: KORNACKER, M.G.
; TITLE OF INVENTION: A NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRMY4,
; FILE REFERENCE: D0039NP
; CURRENT APPLICATION NUMBER: US/09/966,459A
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,833
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/261,776
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: 60/305,351
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/313,202
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Polypeptide
US-09-966-459A-60

Query Match      31.7%; Score 32; DB 10; Length 15;
Best Local Similarity 54.5%; Pred. No. 3e+02;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 3 SEGNSFTAPND 13
   | | | | |
Db 3 SDGESFFEPGD 13

RESULT 7
US-10-323-412-60
; Sequence 60, Application US/10323412
; Publication No. US20040121330A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR, HGPRMY4, AND METHODS OF
; FILE REFERENCE: D0039A CIP
; CURRENT APPLICATION NUMBER: US/10/323,412
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: U.S. 09/964,459
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: U.S. 60/235,833
; PRIOR FILING DATE: 2000-09-27

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```

; PRIOR APPLICATION NUMBER: U.S. 60/261,776
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: U.S. 60/305,351
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: U.S. 60/313,202
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 60
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized Polypeptide.
US-10-323-412-60

Query Match      31.7%; Score 32; DB 16; Length 15;
Best Local Similarity 54.5%; Pred. No. 3e+02;
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 3 SEGNSFTAPND 13
   | | | | |
Db 3 SDGESFFEPGD 13

RESULT 8
US-10-172-425B-31
; Sequence 31, Application US/10172425B
; Publication No. US20030147908A1
; GENERAL INFORMATION:
; APPLICANT: Kaempfer, Raymond
; APPLICANT: Azad, Gila
; TITLE OF INVENTION: BROAD SPECTRUM ANTAGONISTS AND VACCINES
; DIRECTED AGAINST PYROGENIC EXOTOXINS
; FILE REFERENCE: A31967-PCT-USA-A 086031.0164
; CURRENT APPLICATION NUMBER: US/10/172,425B
; CURRENT FILING DATE: 2002-06-13
; PRIOR APPLICATION NUMBER: 09/150,947
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: PCT/IL97/00438
; PRIOR FILING DATE: 1997-12-30
; PRIOR APPLICATION NUMBER: ISRAEL 119938
; PRIOR FILING DATE: 1996-12-30
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 31
; LENGTH: 14
; TYPE: PRT
; ORGANISM: Streptococcus pyogenes
US-10-172-425B-31

Query Match      30.7%; Score 31; DB 14; Length 14;
Best Local Similarity 85.7%; Pred. No. 4e+02;
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 14 SDKKEVT 20
   : | | | | |
Db 3 TDKKEVT 9

RESULT 9
US-10-432-422-67
; Sequence 67, Application US/10432422
; Publication No. US20040076981A1
; GENERAL INFORMATION:
; APPLICANT: Syngenta Participations AG
; APPLICANT: Cornell Research Foundation, Inc.
; APPLICANT: Yoder, Olen
; APPLICANT: Turgeon, Barbara G.
; APPLICANT: Lu, Shen-wen
; TITLE OF INVENTION: Fungal Iron Reductase Gene
; FILE REFERENCE: 1360.017WO1
; CURRENT APPLICATION NUMBER: US/10/432,422

```

```

; CURRENT FILING DATE: 2003-05-21
; PRIOR APPLICATION NUMBER: US 60/252,732
; PRIOR FILING DATE: 2000-11-22
; PRIOR APPLICATION NUMBER: US 60/252,649
; PRIOR FILING DATE: 2000-11-22
; NUMBER OF SEQ ID NOS: 210
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 15
; TYPE: PRT
; ORGANISM: Fusarium scirpi
US-10-432-422-67

```

```

Query Match 30.7%; Score 31; DB 15; Length 15;
Best Local Similarity 40.0%; Pred. No. 4.4e+02;
Matches 6; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

```

```

QY 1 ILSEGNSTAPNDSK 15
:|:|:|:|:|:|
Db 1 VLKAGHAFTLIDPSD 15

```

```

RESULT 10
US-10-632-706-141
; Sequence 141, Application US/10632706
; Publication No. US20040175385A1
; GENERAL INFORMATION:
; APPLICANT: MARKS, JAMES D.
; APPLICANT: AMERSDORFER, PETER
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
; TITLE OF INVENTION: NEUROTOXINS
; FILE REFERENCE: 407T-895120US
; CURRENT APPLICATION NUMBER: US/10/632,706
; CURRENT FILING DATE: 2003-08-01
; PRIOR APPLICATION NUMBER: US 60/400,721
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 09/144,806
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 141
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-141

```

```

Query Match 30.7%; Score 31; DB 16; Length 17;
Best Local Similarity 46.7%; Pred. No. 5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

```

```

QY 2 LSEGNSTAPNDSK 16
:|:|:|:|:|:|
Db 2 ISDGGSYTYPDVK 16

```

```

RESULT 11
US-10-632-706-145
; Sequence 145, Application US/10632706
; Publication No. US20040175385A1
; GENERAL INFORMATION:
; APPLICANT: MARKS, JAMES D.
; APPLICANT: AMERSDORFER, PETER
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
; TITLE OF INVENTION: NEUROTOXINS
; FILE REFERENCE: 407T-895120US
; CURRENT APPLICATION NUMBER: US/10/632,706
; CURRENT FILING DATE: 2003-08-01
; PRIOR APPLICATION NUMBER: US 60/400,721
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 09/144,806
; PRIOR FILING DATE: 1998-08-31

```

```

; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 145
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-145

```

```

Query Match 30.7%; Score 31; DB 16; Length 17;
Best Local Similarity 46.7%; Pred. No. 5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

```

```

QY 2 LSEGNSTAPNDSK 16
:|:|:|:|:|:|
Db 2 ISDGGSYTYPDVK 16

```

```

RESULT 12
US-10-632-706-149
; Sequence 149, Application US/10632706
; Publication No. US20040175385A1
; GENERAL INFORMATION:
; APPLICANT: MARKS, JAMES D.
; APPLICANT: AMERSDORFER, PETER
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
; TITLE OF INVENTION: NEUROTOXINS
; FILE REFERENCE: 407T-895120US
; CURRENT APPLICATION NUMBER: US/10/632,706
; CURRENT FILING DATE: 2003-08-01
; PRIOR APPLICATION NUMBER: US 60/400,721
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 09/144,806
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 149
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: single chain antibody fragment
US-10-632-706-149

```

```

Query Match 30.7%; Score 31; DB 16; Length 17;
Best Local Similarity 46.7%; Pred. No. 5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

```

```

QY 2 LSEGNSTAPNDSK 16
:|:|:|:|:|:|
Db 2 ISDGGSYTYPDVK 16

```

```

RESULT 13
US-10-632-706-153
; Sequence 153, Application US/10632706
; Publication No. US20040175385A1
; GENERAL INFORMATION:
; APPLICANT: MARKS, JAMES D.
; APPLICANT: AMERSDORFER, PETER
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
; TITLE OF INVENTION: NEUROTOXINS
; FILE REFERENCE: 407T-895120US
; CURRENT APPLICATION NUMBER: US/10/632,706
; CURRENT FILING DATE: 2003-08-01
; PRIOR APPLICATION NUMBER: US 60/400,721
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: US 09/144,806
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 153

```

; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: 4  
; OTHER INFORMATION: single chain antibody fragment  
US-10-632-706-153

Query Match 30.7%; Score 31; DB 16; Length 17;  
Best Local Similarity 46.7%; Pred. No. 5e+02;  
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 2 LSEGNFTAPNDSK 16  
:|:|:|:|:|:|  
Db 2 ISDGSYTYPPDSVK 16

## RESULT 14

US-10-632-706-157  
; Sequence 157, Application US/10632706  
; Publication No. US20040175385A1  
; GENERAL INFORMATION:  
; APPLICANT: MARKS, JAMES D.  
; APPLICANT: AMERSDORFER, PETER  
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM  
; FILE REFERENCE: 407T-895120US  
; CURRENT APPLICATION NUMBER: US/10/632,706  
; CURRENT FILING DATE: 2003-08-01  
; PRIOR APPLICATION NUMBER: US 60/400,721  
; PRIOR FILING DATE: 2002-08-01  
; PRIOR APPLICATION NUMBER: US 09/144,806  
; PRIOR FILING DATE: 1998-08-31  
; NUMBER OF SEQ ID NOS: 278  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 157  
; LENGTH: 17  
; TYPE: PRT  
; ORGANISM: Artificial  
; FEATURE:  
; OTHER INFORMATION: single chain antibody fragment  
US-10-632-706-157

Query Match 30.7%; Score 31; DB 16; Length 17;  
Best Local Similarity 46.7%; Pred. No. 5e+02;  
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 2 LSEGNFTAPNDSK 16  
:|:|:|:|:|:|  
Db 2 ISDGSYTYPPDSVK 16

## RESULT 15

US-10-057-789-298  
; Sequence 298, Application US/10057789  
; Publication No. US20030082522A1  
; GENERAL INFORMATION:  
; APPLICANT: Paul Haynes  
; APPLICANT: Jing Wei  
; APPLICANT: John Yates  
; APPLICANT: Nancy Andon  
; TITLE OF INVENTION: DIFFERENTIAL LABELING FOR QUANTITATIVE  
; FILE REFERENCE: NADII 022A  
; CURRENT APPLICATION NUMBER: US/10/057,789  
; CURRENT FILING DATE: 2002-06-28  
; PRIOR APPLICATION NUMBER: US 60/264,576  
; PRIOR FILING DATE: 2001-01-26  
; PRIOR APPLICATION NUMBER: US 60/305,232  
; PRIOR FILING DATE: 2001-07-13  
; NUMBER OF SEQ ID NOS: 311  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 298  
; LENGTH: 20

; TYPE: PRT  
; ORGANISM: Saccharomyces cerevisiae  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: 4  
; OTHER INFORMATION: Xaa = Modified Cysteine  
US-10-057-789-298

Query Match 30.7%; Score 31; DB 14; Length 20;  
Best Local Similarity 50.0%; Pred. No. 6.1e+02;  
Matches 7; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 LSEGNFTAPNDSK 15  
:|:|:|:|:|:|  
Db 1 LSYXGGLPAPEDSD 14

Search completed: January 26, 2005, 16:55:06  
Job time : 56.5 secs



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OM protein - protein search, using sw model

Run on: January 26, 2005, 15:54:02 ; Search time 14.6 Seconds  
(without alignments)  
90.847 Million cell updates/sec

Title: us-09-202-464-29

Perfect score: 101

Sequence: 1 ILSEGNFTAPNDSKKEVT 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 478139 seqs, 66318000 residues

Total number of hits satisfying chosen parameters: 187706

Minimum DB seq length: 0

Maximum DB seq length: 20

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	85	84.2	20	3	US-08-467-023-52
2	67	66.3	15	4	US-09-142-524D-67
3	62	61.4	15	4	US-09-142-524D-68
4	48	47.5	15	4	US-09-142-524D-66
5	48	47.5	20	3	US-08-467-023-51
6	37	36.6	15	4	US-09-142-524D-69
7	37	36.6	20	3	US-08-467-023-53
8	35	34.7	19	3	US-09-014-416-33
9	34	33.7	16	4	US-09-048-473-12
10	34	33.7	19	3	US-09-014-416-29
11	34	33.7	19	3	US-09-014-416-31
12	34	33.7	19	3	US-09-014-416-35
13	33	32.7	15	4	US-09-142-524D-117
14	31	30.7	12	1	US-07-789-184-170
15	31	30.7	12	1	US-08-475-263-170
16	31	30.7	12	1	US-08-485-886-170
17	31	30.7	12	2	US-08-477-362-170
18	31	30.7	12	2	US-08-477-134-170
19	31	30.7	12	3	US-08-473-489A-170
20	31	30.7	12	3	US-08-485-695-170
21	31	30.7	12	3	US-08-018-760-170
22	31	30.7	17	2	US-08-295-643-15
23	30	29.7	18	3	US-08-804-439A-113
24	30	29.7	19	3	US-09-014-416-39
25	29	28.7	12	2	US-08-475-844-7
26	29	28.7	12	5	PCT-US95-08429-7
27	29	28.7	15	3	US-09-133-341-8

28 29 28.7 15 4 US-09-739-852-8 Sequence 8, Appli  
29 29 28.7 15 4 US-09-142-524D-116 Sequence 116, App  
30 29 28.7 19 3 US-09-014-416-42 Sequence 42, Appl  
31 28.5 28.2 17 6 5196511-26 Patent No. 5196511  
32 28 27.7 13 1 US-08-488-252-29 Sequence 29, Appl  
33 28 27.7 15 1 US-08-218-025A-15 Sequence 15, Appl  
34 28 27.7 15 5 PCT-US93-11703-50 Sequence 50, Appl  
35 28 27.7 15 5 PCT-US93-11703-51 Sequence 51, Appl  
36 28 27.7 16 3 US-08-886-886-7 Sequence 7, Appl  
37 28 27.7 16 3 US-08-440-322-3 Sequence 3, Appl  
38 28 27.7 16 3 US-08-440-322-4 Sequence 4, Appl  
39 28 27.7 16 3 US-08-440-331-3 Sequence 3, Appl  
40 28 27.7 16 3 US-08-440-331-4 Sequence 4, Appl  
41 28 27.7 20 1 US-08-488-252-26 Sequence 26, Appl  
42 27 26.7 10 3 US-08-566-190-23 Sequence 23, Appl  
43 27 26.7 12 1 US-07-789-184-157 Sequence 157, App  
44 27 26.7 12 1 US-08-475-263-157 Sequence 157, App  
45 27 26.7 12 1 US-08-485-886-157 Sequence 157, App

## ALIGNMENTS

RESULT 1  
US-08-467-023-52  
; Sequence 52, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/467,023  
; FILING DATE: June 6, 1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/350,225  
; FILING DATE: December 6, 1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Jane E. Remillard  
; REGISTRATION NUMBER: 38,872  
; REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617) 227-7400  
; TELEFAX: (617) 227-5941  
; INFORMATION FOR SEQ ID NO: 52:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 20 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; FRAGMENT TYPE: internal

US-08-467-023-52

Query Match 84.2%; Score 85; DB 3; Length 20;  
Best Local Similarity 85.0%; Pred. No. 2.9e-07;  
Matches 17; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDSKKEVT 20  
|||||||:|:|:|  
Db 1 ILSEGNSTAPNESYKKQVT 20

RESULT 2

US-09-142-524D-67  
; Sequence 67, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kinjo, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 67  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 53

US-09-142-524D-67

Query Match 66.3%; Score 67; DB 4; Length 15;  
Best Local Similarity 92.9%; Pred. No. 0.00017;  
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTAPNDS 14  
|||||||:|:|:|  
Db 1 ILSEGNSTAPNES 14

RESULT 3

US-09-142-524D-68  
; Sequence 68, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kinjo, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 68  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)

; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 54  
US-09-142-524D-68

Query Match 61.4%; Score 62; DB 4; Length 15;  
Best Local Similarity 80.0%; Pred. No. 0.0011;  
Matches 12; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 6 NSFTAPNDSKKEVT 20  
|||||||:|:|:|  
Db 1 NSFTAPNESYKKQVT 15

RESULT 4

US-09-142-524D-66  
; Sequence 66, Application US/09142524D  
; Patent No. 6719976  
; GENERAL INFORMATION:  
; APPLICANT: Sone, Toshio  
; APPLICANT: Kume, Akinori  
; APPLICANT: Dairiki, Kazuo  
; APPLICANT: Iwama, Akiko  
; APPLICANT: Kinjo, Kohsuke  
; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
; FILE REFERENCE: SPO-103  
; CURRENT APPLICATION NUMBER: US/09/142,524D  
; CURRENT FILING DATE: 1998-09-09  
; PRIOR APPLICATION NUMBER: PCT/JP97/00740  
; PRIOR FILING DATE: 1997-03-10  
; NUMBER OF SEQ ID NOS: 174  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 66  
; LENGTH: 15  
; TYPE: PRT  
; ORGANISM: Cryptomeria japonica  
; FEATURE:  
; NAME/KEY: MISC FEATURE  
; LOCATION: (1)..(15)  
; OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 52

US-09-142-524D-66

Query Match 47.5%; Score 48; DB 4; Length 15;  
Best Local Similarity 100.0%; Pred. No. 0.21;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTFA 10  
|||||||:|:|:|  
Db 6 ILSEGNSTFA 15

RESULT 5

US-08-467-023-51  
; Sequence 51, Application US/08467023  
; Patent No. 6090386  
; GENERAL INFORMATION:  
; APPLICANT: Griffith, Irwin J.;  
; APPLICANT: Pollock, Joanne;  
; APPLICANT: Bond, Julian F.;  
; APPLICANT: Garman, Richard D;  
; APPLICANT: Kuo, Mei-Chang;  
; APPLICANT: Yeung, Siu-mei H.;  
; APPLICANT: Brauer, Andrew;  
; APPLICANT: Exley, Mark A.;  
; APPLICANT: Powers, Steven P.  
; TITLE OF INVENTION: Allergenic Proteins And Peptides From  
; TITLE OF INVENTION: Japanese Cedar Pollen  
; NUMBER OF SEQUENCES: 261  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
; STREET: 610 Lincoln St  
; CITY: Waltham  
; STATE: MA  
; COUNTRY: USA  
; ZIP: 02154



COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 51:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-51

Query Match 47.5%; Score 48; DB 3; Length 20;  
Best Local Similarity 100.0%; Pred. No. 0.3;  
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ILSEGNSTFA 10  
||| ||||| |||  
DB 11 ILSEGNSTFA 20

RESULT 6  
US-09-142-524D-69  
Sequence 69, Application US/09142524D  
Patent No. 6719976  
GENERAL INFORMATION:  
APPLICANT: Sone, Toshio  
APPLICANT: Kume, Akinori  
APPLICANT: Dairiki, Kazuo  
APPLICANT: Iwama, Akiko  
APPLICANT: Kino, Kohsuke  
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease  
FILE REFERENCE: SPO-103  
CURRENT APPLICATION NUMBER: US/09/142,524D  
CURRENT FILING DATE: 1998-09-09  
PRIOR APPLICATION NUMBER: PCT/JP97/00740  
PRIOR FILING DATE: 1997-03-10  
NUMBER OF SEQ ID NOS: 174  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 69  
LENGTH: 15  
TYPE: PRT  
ORGANISM: Cryptomeria japonica  
FEATURE:  
NAME/KEY: MISC FEATURE  
LOCATION: (1)-(15)  
OTHER INFORMATION: Cryj1 peptide, Figure 1, Row 55  
US-09-142-524D-69

Query Match 36.6%; Score 37; DB 4; Length 15;  
Best Local Similarity 70.0%; Pred. No. 13;  
Matches 7; Conservative 2; Mismatches 1; Indels 1; Gaps 0;

QY 11 PNDSDKKEVT 20  
||| ||||| |||  
DB 1 PNEYSKKQVT 10

RESULT 7  
US-08-467-023-53  
Sequence 53, Application US/08467023  
Patent No. 6090386  
GENERAL INFORMATION:  
APPLICANT: Griffith, Irwin J.;  
APPLICANT: Pollock, Joanne;  
APPLICANT: Bond, Julian F.;  
APPLICANT: Garman, Richard D;  
APPLICANT: Kuo, Mei-Chang;  
APPLICANT: Yeung, Siu-mei H.;  
APPLICANT: Brauer, Andrew;  
APPLICANT: Exley, Mark A.;  
APPLICANT: Powers, Steven P.  
TITLE OF INVENTION: Allergenic Proteins And Peptides From  
NUMBER OF SEQUENCES: 261  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Immunologic Pharmaceutical Corporation, Inc.  
STREET: 610 Lincoln St  
CITY: Waltham  
STATE: MA  
COUNTRY: USA  
ZIP: 02154  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/467,023  
FILING DATE: June 6, 1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/350,225  
FILING DATE: December 6, 1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Jane E. Remillard  
REGISTRATION NUMBER: 38,872  
REFERENCE/DOCKET NUMBER: 025.6 USD2 (IMI-028CPD2)  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941  
INFORMATION FOR SEQ ID NO: 53:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 20 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FRAGMENT TYPE: internal  
US-08-467-023-53

Query Match 36.6%; Score 37; DB 3; Length 20;  
Best Local Similarity 70.0%; Pred. No. 18;  
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 11 PNDSDKKEVT 20  
||| ||||| |||  
DB 1 PNEYSKKQVT 10

RESULT 8  
US-09-014-416-33  
Sequence 33, Application US/09014416  
Patent No. 6153421  
GENERAL INFORMATION:  
APPLICANT: Yanagi, Masayuki  
APPLICANT: Bukh, Jens  
APPLICANT: Emerson, Susanne U.  
APPLICANT: Purcell, Robert H.  
TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND  
TITLE OF INVENTION: USES THEREOF

```

; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-33

```

```

Query Match 34.7%; Score 35; DB 3; Length 19;
Best Local Similarity 45.5%; Pred. No. 36;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

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QY 7 SFTAPNDSKK 17
   :||| |||:
Db 6 TYTGNSSDQR 16

```

```

RESULT 9
US-09-048-473-12
; Sequence 12, Application US/09048473
; Patent No. 6509171
; GENERAL INFORMATION:
; APPLICANT: Berk, Randy M.
;             Hayenga, Kirk J.
;             Lawlis, Virgil B.
;             Ward, Michael
; TITLE OF INVENTION: ASPARTIC PROTEINASE DEFICIENT
;                   FILAMENTOUS FUNGI
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International, Inc.
; STREET: 925 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304-1013
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/048,473
; FILING DATE: 26-Mar-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/214,237
; FILING DATE: 01-JUL-1992
; APPLICATION NUMBER: 07/931,123
; FILING DATE: 17-AUG-1992
; APPLICATION NUMBER: 08/345,018
; FILING DATE: 23-NOV-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Glaister, Debra J.
; REGISTRATION NUMBER: 33,888
; REFERENCE/DOCKET NUMBER: GC45-4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-846-7620
; TELEFAX: 650-845-6504
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-048-473-12

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Query Match 33.7%; Score 34; DB 4; Length 16;

```

```

Best Local Similarity 33.3%; Pred. No. 43;
Matches 5; Conservative 7; Mismatches 3; Indels 0; Gaps 0;
QY 3 SEGNSFTAPNDSKK 17
   |::| |::|:
Db 1 SKGSAVTTQNNDDE 15

```

```

RESULT 10
US-09-014-416-29
; Sequence 29, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Bukh, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-29

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```

Query Match 33.7%; Score 34; DB 3; Length 19;
Best Local Similarity 45.5%; Pred. No. 53;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
QY 7 SFTAPNDSKK 17
   :||| |||:
Db 6 TYTKPNSSDQR 16

```

```

RESULT 11
US-09-014-416-31
; Sequence 31, Application US/09014416
; Patent No. 6153421
; GENERAL INFORMATION:
; APPLICANT: Yanagi, Masayuki
; APPLICANT: Bukh, Jens
; APPLICANT: Emerson, Susanne U.
; APPLICANT: Purcell, Robert H.
; TITLE OF INVENTION: CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: 20264276
; CURRENT APPLICATION NUMBER: US/09/014,416
; CURRENT FILING DATE: 1998-01-27
; EARLIER APPLICATION NUMBER: US 60/053,062
; EARLIER FILING DATE: 1997-07-18
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Hepatitis C virus
US-09-014-416-31

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```

Query Match 33.7%; Score 34; DB 3; Length 19;
Best Local Similarity 45.5%; Pred. No. 53;
Matches 5; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
QY 7 SFTAPNDSKK 17
   :||| |||:
Db 6 TYTEPNSSDQR 16

```



```

; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20502.03
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030
; INFORMATION FOR SEQ ID NO: 170:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 12 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-475-263-170

Query Match 30.7%; Score 31; DB 1; Length 12;
Best Local Similarity 58.3%; Pred. No. 96;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 7 SFTAPNDSKKE 18
Db 1 SFLARNPNCKYE 12

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Search completed: January 26, 2005, 16:08:29  
Job time : 14.6 secs